

## **Historic, archived document**

Do not assume content reflects current scientific knowledge, policies, or practices.



University of Maine

---

# Maine Agricultural Experiment Station

ORONO

BULLETIN 270

APRIL, 1918

## EASTERN APHIDS A FEW SPECIES OF PROCIPHILUS.

---

This Bulletin contains a brief account of certain migratory aphids; and Part V of the Aphid Food Plant Catalogue, including plants from the Rose Family to the Parsley Family.

# MAINE AGRICULTURAL EXPERIMENT STATION ORONO, MAINE.

## THE STATION COUNCIL.

PRESIDENT ROBERT J. ALEY,	<i>President</i>
DIRECTOR CHARLES D. WOODS,	<i>Secretary</i>
FREELAND JONES, Bangor,	} <i>Committee of Board of Trustees</i>
THOMAS V. DOHERTY, Houlton,	
FRANK E. GUERNSEY, Dover,	
JOHN A. ROBERTS,	
EUGENE H. LIBBY, Auburn,	<i>Commissioner of Agriculture</i>
WILSON W. CONANT, Buckfield,	<i>State Grange</i>
FRANK S. ADAMS, Bowdoinham,	<i>State Pomological Society</i>
LEONARD C. HOLSTON, Cornish,	<i>State Dairymen's Association</i>
WILLIAM G. HUNTON, Portland,	<i>Maine Livestock Breeders' Ass'n.</i>
	<i>Maine Seed Improvement Ass'n.</i>

AND THE HEADS AND ASSOCIATES OF STATION DEPARTMENTS, AND THE  
DEAN OF THE COLLEGE OF AGRICULTURE.

## THE STATION STAFF.

ADMINIS- TRATION	{	CHARLES D. WOODS, Sc D.	Director
		MARIAN A. COUGLE,	Clerk
		ESTELLE M. GOGGIN,	Clerk
		CHARLES C. INMAN,	Clerk
BIOLOGY	{	FRANK M. SURFACE, Ph. D.,	Biologist*
		JOHN W. GOWEN, Ph. D.,	Assistant
		RAYMOND PEARL, Ph. D.,	Collaborator
		SILVIA PARKER, A. B.,	Assistant
		MILDRED R. COVELL,	Clerk
		HELEN A. RING,	Laboratory Assistant
CHEMISTRY	{	JAMES M. BARTLETT, M. S.,	Chemist
		HERMAN H. HANSON, M. S.,	Chemist*
		ROLAND E. LORD,	Laboratory Assistant
ENTOMOL- OGY	{	EDITH M. PATCH, Ph. D.,	Entomologist
		ALICE W. AVERILL,	Laboratory Assistant
PLANT PATHOLOGY	{	WARNER J. MORSE, Ph. D.,	Pathologist
		†MICHAEL SHAPOVALOV, M. S.,	Assistant
		†GLEN B. RAMSEY, A. M.,	Assistant
		VIOLA L. MORRIS,	Laboratory Assistant
AROOSTOOK FARM	{	JACOB ZINN, Agr. D.,	Assistant Biologist
		C. HARRY WHITE,	Scientific Aid
		JEREMIAH E. SULLIVAN,	Superintendent
HIGHMOOR FARM	{	WELLINGTON SINCLAIR,	Superintendent
		WALTER E. CURTIS,	Scientific Aid
ROYDON L. HAMMOND,		Seed Analyst and Photographer	

\* Absent on leave during period of war.

† In collaboration with U. S. Department of Agriculture.

## BULLETIN 270

# EASTERN APHIDS: A FEW SPECIES OF PROCIPHILUS.\*

EDITH M. PATCH.

There is evidently still considerable work to be done with the migratory Pemphiginae before we have their life histories in hand. Among the single genus *Prociphilus* in the Eastern States alone, several unfinished problems are presented. In fact, the complete American food cycle has been ascertained for but two of the species found in New England,—*P. tessellata*† and *P. venafuscus*.

The second of these, indeed, was not definitely located as to its summer residence until two years ago when the writer secured winged material from pupae collected on the roots of young balsam fir, October 19, 1915 (144-15), though this tree had been under suspicion for several years.‡

*P. xylostei*, to be sure, has been recorded as a root form on "Fichten" (Tullgren 1909, p. 93) for Europe and its habits in America are not likely to be different.

Besides *P. venafuscus*, we have two ash species in the East, *P. fraxinifolii* and *P. approximatus*, the alternate host of neither having yet been reported.

That the several species already mentioned are all easily to be distinguished, a little study of Figure 5 will show.

---

\*Papers from the Maine Agricultural Experiment Station: Entomology No. 97.

†1908. Entomological News, p. 484.

‡1913. Maine Agricultural Experiment Station, Bulletin 207, p. 448.

Figure 4, however, includes some features that concern problems still unsolved. 164-12 represents the fall migrant of a species found congregating in enormous numbers about the base of a mountain ash tree (*Pyrus* sp) on the University of Maine Campus. This has never been taken by the writer except in 1912. It is apparently *P. fitchii* Baker and Davidson, as it closely resembles the type slide of *P. pyri* (Fitch). In structure it is nearer to *P. venafuscus* than to any other species.

Figure 4 (2-15) shows the antenna of the apterous viviparous female of a root species, common on certain Compositae in Maine, which I have considered to be *Trama erigeronensis*. That this is the root form of a species present in Spring upon other vegetation from which it migrates, seems probable. Individuals with wing pads in the underground colonies are frequently found, which would indicate a return fall migration; but I have only once succeeded in obtaining the mature winged forms, (78-06). The antenna and thoracic waxplates of this collection are given in Figure 4. If I am correct in my determination this fall migrant proves that *erigeronensis* should be withdrawn from *Trama* and placed in the genus *Prociphilus*. This insect comes nearer to *P. corrugatans* migrating from *Crataegus* or *P. alnifoliae* from *Amelanchier* than to any other member of the genus known to me; and it may be discovered that the so called *Trama erigeronensis* is the summer root form of a species migrating from hawthorn or Juneberry. So much variety exists in migrants from these two plants that I am not at present confident that only two species are concerned. I do not yet know what the specific characters are as any I have tried to use for separation of these migrants seem to merge more or less.

This brief paper is written as a report of the present status of this group in the East, in the hope that what slight new data it contains may fit in with information which may be available elsewhere. At any rate, eleven years seems long enough to withhold the winged form of *P. (Trama) erigeronensis* unpublished, in continued hope of linking it definitely into some incomplete cycle.

FOOD PLANT CATALOGUE OF THE APHIDAE OF THE  
WORLD.

## PART V.\*

EDITH M. PATCH.

## PITTOSPORACEAE.

## PITTOSPORUM.

**P. eugenoides** A. Cunn. Tarata.*Aphis pomi* DeGeer. Essig, 1917a, p. 341.*Rhopalosiphum persicae* (Sulzer). Essig, 1917a, p. 332.**P. tobira**. Japanese Pittosporum.*Microsiphum solanifolii* (Ashmead). Essig, 1917a, p. 329.*Rhopalosiphum persicae* (Sulzer). Essig, 1917a, p. 331.**P. tenuifolium** Gaertn. Tawhiwhi.*Aphis pomi* DeGeer. Essig, 1917a, p. 341.**P. undulatum** Vent. Victorian Box.*Rhopalosiphum persicae* (Sulzer). Essig, 1917a, p. 332.

## ROSACEAE. ROSE FAMILY.

## ACAENA.

**A. splendens** Vahl.*Myzus michaelseni* Schouteden. Schouteden, 1904, p. 3.*Rhopalosiphum acaenae* Schouteden. Schouteden, 1904, p. 4.

## AGRIMONIA. Agrimony.

**A. eupatoria** L.*Nectarophora agrimoniella* Cockerell. Cockerell, 1903a, p. 168.

## AMELANCHIER. Juneberry.

**A. alnifolia** Nutt.*Illinoia macrosiphum* Wilson. Wilson, 1912a, p. 155.*Pemphigus alnifoliae* Williams. Williams, 1910 (1911), p. 7.*Prociphilus corrugatus* (Sirrinc). Quaintance & Baker, 1917,  
p. 19.**A. canadensis** (L.) Medic. Shad Bush. Service Berry.*Prociphilus corrugatus* (Sirrinc). Patch, 1915c, p. 253.

---

\*Papers from the Maine Agricultural Experiment Station: Entomology No. 98.

## COTONEASTER.

**C. franchetii** Bois.

*Aphis pomi* DeGeer. Essig, 1917a, p. 341.

**C. vulgaris.**

*Aphis pomi* DeGeer (mali Fabricius non Oestlund etc.) (oxyacanthae Schrank non Koch) (padi Sanderson non Linnaeus) (pyri Kittel non Boyer, Koch etc.), Theobald, 1916a, p. 176.

**C. sp.**

*Aphis pomi* DeGeer. (mali Fab.) (aucupariae Buckton) (crataegi Buckton), van der Goot, 1915, p. 210.

## CRATAEGUS. Hawthorn.

**C. Azarolus** L.

*Aphis crataegi* Kalt. (pyri Koch). Passerini, 1863, p. 35.

*Prociphilus corrugatus* (Sirrine). Quaintance & Baker, 1917, p. 19.

**C. coccinea** L.

*Aphis crataegifoliae* Fitch. Monell, 1879, p. 21.

*Aphis (Adactynus) crataegus-coccinea* Rafinesque. Rafinesque, 1818.

*Siphocoryne avenae* (Fab.) (mali Fitch) (avenae Fitch) (prunifoliae Fitch) (annuae Oestlund) (fitchii Sanderson) (*Siphonophora avenae* Thos. in part), Pergande, 1904a, p. 8.

*Siphonophora crataegi* Monell. Monell, 1879, p. 21.

**C. crugalli** (lucida).

*Aphis mali* Fab. (*A. pomi* DeGeer) (*A. oxyacanthae* Schrank), Passerini, 1863, p. 40.

*Eriosoma lanigera* (Hausmann) (*Schizoneura crataegi* Oestlund), Becker 1918a, p. 255.

*Pemphigus corrugatus* Sirrine. Gillette, 1909a, p. 355.

**C. macrocapetra.**

*Pemphigus corrugatus* Sirrine. Gillette, 1909a, p. 355.

**C. monogyna.**

*Aphis pomi* DeGeer. (mali Fabricius non Oestlund etc.) (oxyacanthae Schrank non Koch) (padi Sanderson non Linnaeus) (pyri Kittel non Boyer, Koch), Theobald, 1916a, p. 176.

**C. occidentalis.**

*Pemphigus corrugatus* Sirrine. Gillette, 1909a, p. 355.

**C. oxyacantha** L. English Hawthorn.

*Aphis crataegi* Kalt. Buckton, 2, p. 37.

*Aphis crataegi* Kalt. (pyri Koch), Ferrari, 1872, p. 62.

*Aphis crataegi* Kalt. (non Koch) (non Buckton), Theobald, 1911-1912.

*Aphis crataegi* Koch. Koch, p. 64.

*Aphis crataegiella* Theobald. (crataegi Buckton non Kaltenbach), Theobald, 1911-1912.

*Aphis crataegifoliae* Fitch. Davidson, 1910, p. 377.



- Aphis mali* Fab. (*A. pomi* DeGeer) (*A. oxyacanthae* Schrank), Passerini, 1863, p. 40.  
*Aphis mali* Fab. (Puceron du pomier Gotze) (*pomi* DeGeer) Buckton, 2, p. 46.  
*Aphis oxyacanthae* Koch. Buckton, 2, p. 37.  
*Aphis pomi* DeGeer. (*mali* Fabricius non Oestlund etc.) (*oxyacanthae* Schrank non Koch) (*padi* Sanderson non Linnaeus) (*pyri* Kittel non Boyer, Koch), Theobald, 1916a, p. 176.  
*Aphis rumicis* L. (*evonymi* Fab.) (*papaveris* Fab.) (*atriplicis* Fab.) (*genistae* Scopoli), van der Goot, 1915, p. 224.  
*Dentatus (Aphis) crataegi* Kalt. (*pyri* Boyer) (*ranunculi* Kalt.) van der Goot, 1915, p. 176.  
*Macrosiphum crataegaria* (Walker) (non Buckton). Theobald, 1913, Jour. Econ. Biol., Vol. 8, p. 53.  
*Ovatus (Myzus) mespili* van der Goot. van der Goot, 1915, p. 138.  
*Prociphilus crataegi* Tull. Tullgren, 1909, p. 102.  
*Siphonaphis padi* L. (*avenae* Fab.) van der Goot, 1915, p. 244.  
*Tetraneura ulmi* Geoffrey. (*Aphis*). Ferrari, 1872, p. 83.  
*Myzus oxyacanthae* (Koch). Bayer, 1914a, p. 142.

### C. punctata Jacq.

- Aphis crataegifoliae* Fitch. Thomas, 1879, p. 101.  
*Schizoneura crataegi* Oestlund. Oestlund, 1887, p. 28.

### C. tomentosus L.

- Aphis crataegifoliae* Fitch. Sanborn, 1904, p. 53.  
*Schizoneura crataegi* Oestlund. Williams, 1910, p. 20.

### C. sp.

- Aphis avenae* (Fab.). Patch, 1915c, p. 256.  
*Aphis bakeri* Cowen. (*cephalicola* Cowen). Gillette and Taylor, 1908, p. 28.  
*Aphis brevis* Sanderson. Patch, 1915c, p. 257.  
*Aphis crataegifoliae* Fitch. Quaintance and Baker, 1917, p. 18.  
*Aphis edentula* Buckton. Buckton, 2, p. 41.  
*Aphis marutae* Oestlund. Hunter, 1901, p. 101.  
*Pemphigus corrugatans* Sirrine. Jackson, 1908, p. 216.  
*Schizoneura lanigera* Hausmann (*S. americana* in part, of authors) Patch, 1912a, p. 395.

## CRATAEGO-MESPILUS. (hybrid).

### C.-Mespilus.

- Aphis crataegi* Buckton. Lingelsheim, 1916a.  
*Myzus oxyacanthae* Koch. Lingelsheim, 1916a.

## DUCHESNEA. Indian Strawberry.

### D. indica (And). Focke (*Fragaria indica*).

- Aphis gossypii* Glover. (*citrifolii* Ashm. In part) (*citrulli* Ashm.) (*cucumeris* Forbes) (*forbesi* Weed?), Pergande, 1895, p. 314.

## ERIOBOTRYA.

**E. japonica** Lindl.

*Aphis eriobotryae* Schouteden. Schouteden, 1905a, p. 165.

## FILIPENDULA.

**F. ulmaria** (L.). Maxim (*Ulmaria ulmaria* L.) (*Spiraea ulmaria*) (*Spiraea* by misprint) Queen of the Meadow.

*Aphis spiraeella* Schouteden. (schoutedeni Kirkaldy) (*spirea* Schouteden nec Oestlund) Schouteden, 1906a, p. 228.

*Siphonophora pisi* Kalt. Buckton, 1, p. 135.

*Siphonophora ulmariae* (Schrank, Walker) (*onobrychis* Boyer) (*pisi* Kalt.) (*pisi* Koch) (*gei* Koch), Passerini, 1863, p. 13.

## FRAGARIA. Strawberry.

**F. indica.** See *Duchesnea indica*.**F. vesca** L.

*Aphis chloris* Koch. Passerini, 1863, p. 39.

*Aphis fragariae* Walker. Walker, 1848b, p. 431.

*Rhizobius sonchi* Pass. Kaltenbach, 1874, p. 484.

*Siphonophora fragariae* Koch. Buckton, 1, p. 126.

**F. virginiana** Duchne.

*Aphis* sp. Sanborn, 1904, p. 63.

*Myzus porosus* Sanderson. Patch, 1915c, p. 258.

**F. sp.**

*Aphis aparines* Fab. Williams, 1891, p. 24.

*Aphis forbesi* Weed. Weed, 1888, p. 273.

*Aphis fragariae* Koch. Kaltenbach, 1874, p. 231.

*Aphis gossypii* Glover. (*citrifolii* Ashm. in part) (*citrulli* Ashm.) (*cucumeris* Forbes) (*forbesi* Weed?), Pergande, 1895, p. 314.

*Aphis maidiradicis* Forbes. Vickery, 1910, p. 111.

*Macrosiphum fragariellum* Theobald. (*S. fragariella*), Cockerell, 1905, p. 309; Theobald, 1913, Jour. Econ. Biol. Vol. 8, p. 53.

*Macrosiphum rogersii* Theobald. Theobald, 1913, Jour. Econ. Biol. Vol. 8, p. 53.

*Macrosiphum trifolii* Pergande. Pergande, 1904a, p. 22.

*Myzus fragaefolii* Cockerell. Cockerell, 1901a, p. 101.

*Myzus fragariae* Theobald. Theobald, 1912.

*Myzus porosus* Sanderson. Sanderson, 1900, p. 205.

*Siphonophora fragariae* var. *immaculata* Riley. Pergande, 1904a, p. 22.

*Siphonophora minor* Forbes. Forbes, 1884, p. 79.

## GEUM. Avens.

**G. urbanum** L.

*Macrosiphum gei* Koch. Theobald, 1913, p. 53.

*Macrosiphum ulmariae* (Schrank) (*gei* Koch) (*urticae* Kalt?) van der Goot, 1915, p. 104.

*Siphonophora ulmariae* (Schrank) (onobrychis Boyer) (pisi Kalt.)  
(gei Koch). Ferrari, 1872, p. 55.

### MESPILUS.

#### M. germanica.

*Aphis pomi* DeGeer. Lingelsheim, 1916a.

*Aphis fitchii* Sanderson. Lingelsheim, 1916a.

### NUTTALLIA. (Osmaronia).

#### N. cerasiformis Torr-Gray.

*Illinoia osmaroniae* Wilson. Wilson, 1912a, p. 153.

### PHOTINIA.

#### P. arbutifolia Lindl.

*Rhopalosiphum nervatum* Gillette (arbuti Davidson). Essig, 1917,  
p. 330.

#### P. serrulata Lindl. (Crataegus glabra).

*Myzus cerasi* Fab. Macchiati, 1883, p. 234.

### PHYSOCARPUS. (Neillia) (Opulaster). Nine-bark.

#### P. opulifolius (L). Maxim. (Neillia opulifolius).

*Aphis neilliae* Oestlund. Oestlund, 1887, p. 59.

### POTENTILLA. (Tormentilla). Cinquefoil.

#### P. Anserina L. Silver Weed.

*Aphis dianthi* Schrank. Walker, 1850a, p. 394.

*Macrosiphum potentillae* (Aphis Walker). Theobald, 1913, p. 150.

*Myzus rosarum* (Walker) (potentillae Oestlund). Oestlund, 1887,  
p. 73.

*Nectarophora potentillae* Oestlund. Oestlund, 1887, p. 83.

*Phorodon galeopsidis* (Kalt.) Pass. (Walker ex parte). Passerini,  
1863, p. 19.

#### P. arguta Pursh.

*Myzus potentillae* Williams. Williams, 1910 (1911), p. 66.

#### P. hippiana Lehm. (pulcherrima).

*Nectarophora martini* Cockerell. Cockerell, 1903a, p. 171. (pulcherrima?).

#### P. reptans L.

*Phorodon galeopsidis* Kalt. Macchiati, 1883, p. 232.

#### P. tormentilla Scop.

*Aphis tormentillae* Pass. Del Guercio, 1909, (1910), Redia VII,  
p. 297.

### PRUNUS. (Amygdalus) (Cerasus) (Padus) (Persica). Plum. Cherry.

#### P. americana Marsh. Wild Plum.

*Aphis cerasi* Schrank. (A. prunicola Kalt.) Lingelsheim, 1916a.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

- P. Amygdalus** Baill. (*Amygdalus communis* L.) Almond.  
*Aphis amygdali* Blanch. Thomas, 1879, p. 102.  
*Aphis amygdalinus* Schouteden. Schouteden, 1905a, p. 164.  
*Lachnus fuliginosus* Buckton. Buckton, 1891, p. 41.  
*Rhopalosiphum nymphaeae* (Linn.). Davidson, 1917a, p. 350.
- P. armeniaca** L. Apricot.  
*Aphis persicariae* Hartig. Hartig, 1841, p. 370.  
*Aphis pruni* Reaum. (*prunifoliae* Fitch?) (*Prunifex* Amyot) (*Calamaphis* Amyot). Buckton, 2, p. 65.  
*Aphis prunorum* Dobrowljansky. Dobrowljansky, 1913, p. 45.  
*Hyalopterus arundinis* Fabr. Clarke, 1903, p. 249.  
*Hyalopterus pruni* (Fab.) Koch (*Prunifex* Amyot). Buckton, 2, p. 111.  
*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.  
*Rhopalosiphum nymphaeae* (Linn.). Davidson, 1917a, p. 350.
- P. avium** L. Sweet Cherry. Mazzard.  
*Aphis cerasina* Walker. Kaltenbach. 1874, p. 177.  
*Myzus cerasi* (Fab.) Pass. Passerini, 1863, p. 22.
- P. cerasus** L. (*Cerasus vulgaris*). Sour or Morello Cherry.  
*Myzus cerasi* Fab. Gillette and Taylor, 1908, p. 43.  
*Myzus cerasi* (Fab.) Pass. (*Cerasaphis* Amyot). Buckton, 1, p. 175.  
*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.
- P. chamaerasus** Jacq.  
*Aphis insititiae* Koch. Cholodkovsky, 1910, p. 146.
- P. domestica** L. Common Garden Plum.  
*Aphis alamedensis* Clarke. Clarke, 1903, p. 251.  
*Aphis convecta* Walker. Walker, 1849c, p. 37.  
*Aphis deposita* Walker. Walker, 1848c, p. 2250.  
*Aphis detracta* Walker. Walker, 1849c, p. 38.  
*Aphis egressa* Walker. Walker, 1849c, p. 38.  
*Aphis humuli* Schrank. (*A. pruni* Scop.) Koch, p. 115.  
*Aphis internata* Walker. Walker, 1849c, p. 37.  
*Aphis persorbens* Walker. Walker, 1849c, p. 37.  
*Aphis pruni* Fab. Kaltenbach, 1874, p. 176.  
*Aphis pruni* Koch. (*Aphis cardui* Linn.) Dobrowljansky, 1913, p. 45.  
*Aphis prunicola* Kalt. Passerini Flora.  
*Aphis prunina* Walker. Passerini, 1863, p. 37; Walker, 1848c, p. 2250.  
*Aphis setariae* Thomas. Quaintance and Baker, 1917, p. 19.  
*Aphis similis* Walker. Walker, 1848c, p. 2249.  
*Aphis transposita* Walker. Walker, 1849c, p. 37.  
*Aphis* sp. Quaintance and Baker, 1917, p. 19.  
*Myzus persicae* Sulzer. Gillette and Taylor, 1917, p. 36.
- P. insititia** L. Bullace Plum.  
*Anuraphis prunicola* Kaltenbach. Del Guercio, 1909 (1910), p. 297.

*Aphis insititia* Koch. Kaltenbach, 1874, p. 177.

*Brachycaudus helichrysi* Kalt. (*myosotidis* Koch) (*pruni* Koch).  
van der Goot, 1915, p. 257.

*Phorodon humuli* Schrank. (*A. pruni* Scop.). van der Goot, 1915,  
p. 134.

**P. Mahaleb** L. Perfumed Cherry.

*Aphis frangulae* Kalt. (*A. rhammi* Kalt. *not* Boyer). Koch, p.  
120.

*Myzus cerasi* Fab. (*Aphis*). Ferrari, 1872, p. 61.

*Myzus mahaleb* (Koch) Pass. (*A. pruni mahaleb* Boyer) (*A.*  
*humuli* Walker partim?).

*Phorodon pruni* "n. sp?" Ferrari. (*A. humuli* Koch partim).  
Ferrari, 1872, p. 60.

**P. melanocarpa.**

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

**P. mume.**

*Macrosiphum mumeicola* Matsumura. Matsumura, 1917a, p. 361.

**P. padus** L.

*Aphis padi* Reaum. Buckton, 2, p. 62.

*Aphis padi* L. Kaltenbach, 1874, p. 176.

*Aphis padi* Kalt. (*A. avenae* Fab. Kalt.). Mordwilko, 1897, p.  
282.

*Lachnus padi* Hartig. Hartig, 1841, p. 368.

*Siphonaphis padi* Linn. (*A. avenae* Fab.). van der Goot, 1915,  
p. 244.

**P. pennsylvanica** L. Wild Red, Bird, Fire or Pin Cherry.

*Aphis cerasifoliae* Fitch. Gillette, 1910, p. 405.

**P. persica** (L.) Stokes. (*Persica vulgaris*) (*Amygdalus persica*). Peach.

*Abura momocola* Matsumura. Matsumura, 1917a, p. 363.

*Aphis amygdali* Boyer. (*persicae* Boyer). Buckton, 2, p. 105.

*Aphis amygdalinus* Schouteden. Theobald, 1909, p. 324.

*Aphis persicae* Koch. (*persicae* Boyer? *persicae* Kalt?). Koch,  
pp. 61 and 62.

*Aphis infuscata* Koch. van der Goot, 1915, p. 205.

*Aphis persicae* Kalt. Kaltenbach, 1843, p. 93.

*Aphis persicae* Boyer. (*insititiae* Koch). Ferrari, 1872, p. 73.

*Aphis persicae-niger* Smith. Gillette and Taylor, 1908, p. 37.

*Aphis persicariae* Hartig. Hartig, 1841, p. 370.

*Aphis persicophila* Rondani. Passerini, 1860, p. 36.

*Aphis pruni* Reaum. (*prunifoliae* Fitch?) (*prunifex* Amyot)  
(*Calamaphis* Amyot). Buckton, 2, p. 65.

*Aphis prunicola* Kalt. (*cerasi* Schrank). Ferrari, 1872, p. 74.

*Aphis scotti* Sanderson. Smith, 1905, p. 99.

*Aphis setariae* Thom. Quaintance and Baker, 1917, p. 19.

*Brachycaudus amygdali* Buckton. (*A. persicae* Fonsc.) (*cerasi*  
Schrank) (*prunicola* Kalt.). van der Goot, 1915, p. 253.

*Dryobius amygdali* van der Goot. van der Goot, 1912, p. 282.

*Hyalopterus pruni* (Fab.) Koch. (Prunifex Amyot). Buckton, 2, p. 111.

*Lachnus fuliginosus* Buckton. Buckton, 1891, p. 41.

*Lachnus (Pterochloris) persicae* Chol. Cholodkovsky, 1908, p. 688.

*Myzus momonis* Matsumura. Matsumura, 1917a, p. 362.

*Myzus (Aphis) persicae* Pass. Kaltenbach, 1874, p. 151.

*Myzus persicae* Pass. Passerini, 1863, p. 25.

*Myzus persicae* (Sulzer). (insititia Koch) (persicaecola Boisduval) (persicophila Rondani). Buckton, 1, p. 180.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

*Myzus varians* Davidson. Essig, 1917a, p. 335.

*Rhopalosiphum dianthi* (Schrank) Koch (persicae Puceron du pecher Morren) (rapae Curtis) (A. floris rapae Curtis) (dubia? Curtis) (vastator Smee) (persicaecola Boisduval) (R. persicae Pass.) Buckton, 2, p. 17.

*Rhopalosiphum nymphaeae* (Linn.) Davidson, 1917a, p. 350.

*Rhopalosiphum persicae* (Sulzer) Pass. (A. dianthi Schrank) (A. vulgaris Kyber) (A. rapae Curtis) (A. dubia Curtis) (A. vastator Smee). Passerini, 1863, p. 21.

#### **P. pseudo-cerasus.**

*Myzus sasaki* Matsumura. Matsumura, 1917a, p. 362.

#### **P. sachalinensis.**

*Myzus sakurae* Matsumura. Matsumura, 1917a, p. 362.

#### **P. serotina** Ehrh. (Cerasus serotina) Wild Black or Plum Cherry.

*Aphis cerasicolens* Fitch. Williams, 1891, p. 7.

*Siphocoryne avenae* (Fab.) (mali Fitch) (prunifoliae Fitch) (avenae Fitch) (annuae Oestlund) (fitchii Sanderson) (Siphonophora avenae Thos. in part). Pergande, 1904a, p. 8.

#### **P. spinosa** L.

*Aphis amygdali* Boyer. (persicae Boyer). Buckton, 2, p. 105.

*Aphis bellula* Walker. Walker, 1849c, p. 36.

*Aphis cerasina* Walker. Kaltenbach, 1874, p. 177.

*Aphis consona* Walker. Walker, 1849c, p. 36.

*Aphis conviva* Walker. Walker, 1849c, p. 36.

*Aphis humuli* Schrank. (A. pruni Scop.). Koch, p. 115.

*Aphis impacta* Walker. Walker, 1849c, p. 35.

*Aphis infuscata* Koch. Koch, p. 77.

*Aphis nociva* Walker. Walker, 1849c, p. 36.

*Aphis persicae* Boyer. Passerini Flora.

*Aphis prunaria* Walker. Walker, 1850b, p. 121.

*Aphis prunicola* Kalt. (A. cerasi Schrank), Passerini, 1863, p. 50.

*Aphis prunina* Walker. Walker, 1850b, p. 150.

*Aphis spinarum* Hartig. Hartig, 1841, p. 370.

*Aphis transmutedata* Walker. Walker, 1849c, p. 37.

*Brachycaudus amygdali* Buckton. (A. persicae Fonsc.) (A. cerasi Schrank) (A. prunicola Kalt.), van der Goot, 1915, p. 253.



*Hyalopterus pruni* (Fab.) Koch. (Prunifex Amyot). Buckton, 2, p. 111.

*Phorodon humuli* (Schrank) Pass. (pruni Scop.) (Humulifex Amyot) Buckton, 1, p. 167.

*Phorodon humuli* var. *mahaleb* Boyer. (A. pruni Boyer) (A. mahaleb Koch) (M. mahaleb Pass.) Buckton, 1, p. 169.

*Schizoneura corni* Kalt. (S. vagans Koch) "auf Schlehenhecken," Koch, pp. 269 and 330. (September migration).

**P. virginiana** L. (*Cerasus serotina*). Choke cherry.

*Aphis cerasicolens* Fitch. Hunter, 1901, p. 95.

*Aphis cerasifoliae* Fitch. (*Myzus cerasifoliae* Thomas). Thomas, 1879, p. 93.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

*Siphocoryne avenae* (Fab.) (mali Fitch) (prunifoliae Fitch) (avenae Fitch) (annuae Oestl.) (fitchii Sanderson) (*Siphonophora avenae* Thos. in part). Pergande, 1904a, p. 8.

**P. sp.**

*Aphis padi* Linn. (avenae of European authors). Baker, 1917h.

*Aphis prunicolens* Ashmead. Hunter, 1901, p. 102.

*Aphis prunifoliae* Fitch (avenae of American authors, *not padi*) Baker, 1917h.

*Aphis pruni-mahaleb* Boyer. Lichtenstein Flore Supplement.

*Aphis setariae* Thomas. Gillette and Taylor, 1908, p. 41.

*Chaitophorus populi* (Linn.). Pass. (*Myzaegirus* Amyot) (*Arc-taphis populi* Walker). Buckton, 2, p. 142.

*Hyalopterus arundinis* (Fab.) (A. pruni Fab.) (A. phragmitidicola Oestlund) (A. prunifoliae Fitch?). Hunter, 1901, p. 92.

*Hyalopterus arundinis* (Fab.) (pruni). Gillette and Taylor, 1908, p. 39.

*Myzus mahaleb* Fonsc. Pergande, 1897, Bul. 7, Div. Ent.

*Myzus prunifoliae* Fitch. Sanborn, 1904, p. 70.

*Nectarophora prunicola* Ashmead. Hunter, 1901, p. 116.

*Phorodon humuli* Schrank. Gillette and Taylor, 1908, p. 40.

*Rhopalosiphum dubium* Curtis. Lichtenstein La Flore.

*Rhopalosiphum persicae* Sulzer. Lichtenstein La Flore.

*Rhopalosiphum persicaecola* Boisduval. Lichtenstein La Flore.

*Rhopalosiphum vastator* Smee. Lichtenstein La Flore.

*Rhopalosiphum vulgaris* Kyber. Lichtenstein La Flore.

**PYRUS.** (*Cydonia*) (*Malus*) (*Mespilus*) (*Sorbus*).

**P. americana** (Marsh) D. C. (*Sorbus americana*) American Mountain Ash.

*Aphis mali* Fab. (A. malifoliae Fitch) Oestlund, 1887, p. 64.

*Schizoneura lanigera* Hausmann (S. americana in part of authors) Patch, 1912a, p. 395.

**P. aucuparia** (L.) Ehrh. European Mountain Ash. Rowan Tree.

*Aphis aucupariae* Buckton. Buckton, 2, p. 76.

*Aphis pomi* DeGeer. (mali Fab.) (aucupariae Buckton) (crataegi Buckton). van der Goot, 1915, p. 213.

*Aphis pomi* DeGeer. (mali Fabricius non Oestlund etc.) (oxyacanthae Schrank non Koch) (padi Sanderson non Linnaeus) (pyri Kittel non Boyer, Koch). Theobald, 1916a, p. 176.

*Aphis sorbi* Kalt. Kaltenbach, 1874, p. 216.

*Siphocoryne padi* L. (A. avenae Fab.) van der Goot, 1915, p. 244.

**P. communis** L. (pyraster). Pear.

*Aphanostigma (Phylloxera) piri* (Chol.) C. B. Borner, 1909b, p. 61. Cholodkovsky, 1910, p. 149.

*Aphis crataegi* Kalt. (pyri Koch). Passerini, 1863, p. 35.

*Aphis crataegi* Kaltenbach non Buckton. Theobald, 1916, p. 212.

*Aphis gossypii* Glover. (citrifolii Ashmead in part) (citrulli Ashmead) (cucumeris Forbes) (forbesi Weed?) Pergande, 1895, p. 314.

*Aphis kochii* Schouteden (pyri Koch non Boyer) (sorbi Walker, Sanderson etc. non Kaltenbach) (mali Buckton part, non Fabricius) (pyri-mali Fabricius part) (malifoliae Fitch and Thomas) (mali Ferrari part) (pyri Gillette and Taylor). Theobald, 1916b, p. 205.

*Aphis lentiginis* Buckton. Buckton, 2, p. 60.

*Aphis mali* Fab. (Puceron du pomier Gotze) (pomi DeGeer). Buckton, 2, p. 46.

*Aphis oxyacanthae* Koch non Schrank. Bayer, 1909b, p. 35.

*Aphis pyri* Koch. Bayer, 1909b, p. 35.

*Aphis pomi* DeGeer. (mali Fab.) (aucupariae Buckton) (crataegi Buckton). van der Goot, 1915, p. 210.

*Aphis pomi* DeGeer. (mali Fabricius) (pyri Kittel non Boyer, Koch) (padi Sanderson non Linnaeus) (oxyacanthae Schrank). Theobald, 1916a, p. 176.

*Aphis pyraria* Pass. Buckton, 2, p. 54.

*Aphis pyrastris* Boisduval. Passerini Flora.

*Aphis pyri* Goureaux. Passerini Flora.

*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) (genistae Scopoli). van der Goot, 1915, p. 225.

*Eriosoma lanuginosa* Hartig. (pyri Goethe) Baker and Davidson, 1917c, p. 66.

*Eriosoma pyricola* Baker and Davidson. Baker and Davidson, 1916e, p. 351.

*Lachnus pyri* Buckton. Buckton, 1899a, p. 274.

*Myzoxylus laniger* (Hausmann). Bayer, 1909b, p. 34.

*Myzus oxyacanthae* (Koch) Pass. Passerini, 1863, p. 24.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

*Myzus pyriarius* Pass. Passerini, 1862, p. 2.

*Myzus pyrinus* Ferrari. Zoological Record, 1872, p. 418.

*Nectarophora tabaci* Pergande. Pergande, 1898, p. 300.

*Prociphilus corrugatus* Sirrine. Quaintance and Baker, 1917, p. 19.



*Prociphilus fitchii* Baker and Davidson. (pyri Fitch). Baker and Davidson, 1917c, p. 66.

*Schizoneura piri* Mordwilko. Cholodkovsky, 1910, p. 148.

*Siphocorync avenae* (Fab.) (mali Fitch) (avenae Fitch) (prunifoliae Fitch) (annuae Oestl.) (fitchii Sanderson) (Siphonophora avenae Thomas in part). Pergande, 1904a, p. 8.

**P. (Malus) coronaria** L. American Crab.

*Aphis gossypii* Glover. Gillette, 1910, p. 404.

**P. Cydonia** L. (Cydonia vulgaris). Quince-tree.

*Aphis brevis* Sanderson. Sanderson, 1901b, p. 157.

*Aphis crataegifoliae* Fitch. Quaintance and Baker, 1917, p. 18.

*Aphis cydoniac* Boisduval. Zoological Record, 1868, p. 416.

*Aphis mali* Fab. (A. pomi DeGeer) (A. oxyacanthae Schrank). Passerini, 1863, p. 40.

*Aphis pomi* DeGeer. (mali Fab.) (aucupariae Buckton) (crataegi Buckton) van der Goot, 1915, p. 210.

*Macrosiphum solani* (Kalt.) Del Guercio 1909 (1910), Redia VII, p. 297.

*Prociphilus corrugatans* Sirrine. Quaintance and Baker, 1917, p. 19.

*Siphocorync avenae* (Fab.) (mali Fitch) (prunifoliae Fitch) (avenae Fitch) (annuae Oestl.) (fitchii Sanderson) (Siphonophora avenae Thos. in part). Pergande, 1904a, p. 8.

*Siphonophora (Aphis) solani* Kalt. Passerini, 1863, p. 13.

**P. germanica** Hook. (Mespilus germanica).

*Aphis assidua* Walker. Walker, 1849c, p. 40.

*Aphis inserta* Walker. Walker, 1849c, p. 39.

*Aphis insita* Walker No. 1. Walker, 1849c, p. 39.

*Aphis mactata* Walker. Walker, 1849c, p. 39.

*Aphis nutricata* Walker. Walker, 1849c, p. 39.

*Aphis pomi* DeGeer. (mali Fabricius non Oestlund) (oxyacanthae Schrank non Koch) (padi Sanderson non Linnaeus) (pyri Kittel non Boyer, Koch etc.). Theobald, 1916a, p. 176.

*Aphis pruni* Reaum. (prunifoliae Fitch?) (Prunifex Amyot) (Calamaphis Amyot). Buckton, 2, p. 65.

*Macrosiphum pclargonii* Buckton. Theobald, 1913, p. 54.

*Ovatus (Myzus) mespili* van der Goot. van der Goot, 1915, p. 138.

*Siphonaphis padi* L. (avenae Fab.) van der Goot, 1915, p. 244.

*Siphonophora pclargonii* (Kalt.) Koch (pallida Walker) (fragariae Walker?) (dip!anteriae Koch?) (malvae Pass.) Buckton, 1, p. 137.

**P. japonica** Thunb. (Cydonia japonica).

*Aphis mali* Fab. (A. pomi DeGeer) (A. oxyacanthae Schrank). Passerini, 1863, p. 40.

**P. malus** L. (paradisiaca). Apple.

*Aphis (Siphocorync) avenae* Fab. Gillette and Taylor, 1908, p. 30.

- Aphis bakeri* Cowen (cephalicola Cowen). Gillette and Taylor, 1908, p. 28.
- Aphis bivincta* Fitch (var. of mali). Fitch, 1855, p. 760.
- Aphis brevis* Sanderson. Sanderson, 1901b, p. 157. ("Accidental?").
- Aphis erataegi* Kalt. (pyri Koch). Passerini, 1863, p. 35. Lustner 1911.
- Aphis erataegi* Kaltenbach. (non Buckton). Theobald, 1916a, p. 171.
- Aphis deveeta* Walker. Walker, 1849c, p. 38.
- Aphis fulviventris* Fitch. (var. of mali). Fitch, 1855, p. 760.
- Aphis immaeulata* Fitch (var. of mali). Fitch, 1855, p. 760.
- Aphis kochi* Schouteden. (pyri Koch non Boyer) (pyri-mali Fabricius part) (mali Buckton part) (sorbi Walker part Sanderson, Theobald, non Kaltenbach) (Myzus mali Ferrari part) (malifoliae Fitch). Theobald, 1916a, p. 170.
- Aphis lanata* Salisbury. Hagen, 1863, p. 103.
- Aphis mali* Fab. (A. pyri Reaum.) Thomas, 1878, p. 11.
- Aphis mali* Fab. (A. pomi DeGeer) (A. oxyacanthae Schrank). Passerini, 1863, p. 40.
- Aphis mali* Fab. (Puceron du pomier Gotze) (pomi DeGeer). Buckton, 2, p. 46.
- Aphis mali* Fab. (A. malifoliae Fitch). Oestlund, 1887, p. 64.
- Aphis malifoliae* Fitch (the sorbi Kalt. of American authors). Baker and Turner, 1916f, p. 11.
- Aphis medicaginis* Koch. Gillette and Taylor, 1908, p. 32.
- Aphis nigra* Theobald. (oxyacanthae Koch non Schrank). Theobald, 1916a, p. 171.
- Aphis nigricollis* Fitch (var. of mali). Fitch, 1855, p. 760.
- Aphis nigriventris* Fitch (var. of mali). Fitch, 1855, p. 760.
- Aphis obsoleta* Fitch (var. of mali). Fitch, 1855, p. 760.
- Aphis pallidieornis* (var. of mali). Fitch, 1855, p. 759.
- Aphis pomi* DeGeer. Gillette and Taylor, 1908, p. 23.
- Aphis pomi* DeGeer. (mali Fab.) (aucupariae Buckton) (crataegi Buckton). van der Goot, 1915, p. 213.
- Aphis pomi* DeGeer (mali Fabricius) (pyri Kittel non Boyer, Koch) (padi Sanderson, non Linnaeus) (oxyacanthae Schrank). Theobald, 1916a, p. 170.
- Aphis pruni* Reaum. (prunifoliae Fitch?) (Prunifex Amyot) (Calamaphis Amyot) Buckton, 2, p. 65.
- Aphis pyri* Boyer (sorbi Sanderson) (malifolii Fitch). Gillette and Taylor, 1908, p. 32.
- Aphis pyri* Boyer (crataegi Kalt.) (A. discrepans Koch). Koch, p. 109.
- Aphis pyri* Hartig. Hartig, 1841, p. 369.
- Aphis rumicis* Linnaeus (papaveris Fabricius) (thlaspeos Schrank) (fabae Scopoli) (atriplicis Fabricius) (aparinis Schrank) (ar-

mata Hausmann) (dahliae Mosley) (evonymi Fabricius) (ulicis Fabricius). Theobald, 1916a, p. 171.

*Aphis sorbi* Kalt. Gillette, 1910, p. 404.

*Aphis tergata* Fitch (var. of mali). Fitch, 1855, p. 760.

*Aphis thoracica* Fitch (var. of mali). Fitch, 1855, p. 760.

*Aphis triseriata* Fitch (var. of mali). Fitch, 1855, p. 760.

*Callipterus mucidus* Fitch. Hunter, 1901, p. 90. Fitch, 1859, p. 334. "A solitary plant-louse."

*Hyalopterus pruni* Fab. Del Guercio, 1909 (1910), Redia VII, p. 297.

*Macrosiphum solanifolii* Ashmead. Patch, 1915e, p. 214.

*Myzus mali* Ferrari. Zoological Record, 1872, p. 418.

*Myzus oxyacanthae* (Koch) Pass. Passerini, 1863, p. 24. Theobald, 1911-12.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 32.

*Nectarophora tabaci* Pergande. Pergande, 1898, p. 300.

*Pemphigus americanus* Walker.

*Phorodon humuli* Schrank-Koch. Theobald, 1916a, p. 171.

*Schizoneura lanigera* (Hausm.) Hartig (A. mali Tougard) (Myzoxylus mali Blot.) Passerini, 1863, p. 69.

*Schizoneura lanigera* Hausmann. (S. americana Riley in part, of authors). Patch, 1916b.

*Schizoneura pyri* (Fitch). Hunter, 1901, p. 82.

*Siphocoryne avenae* (Fab.) (mali Fitch) (prunifoliae Fitch) (avenae Fitch) (annuae Oestl.) (fitchii Sanderson) (Siphonophora avenae Thomas, in part). Pergande, 1904a, p. 8.

*Siphocoryne avenae* Fabricius (avenae sativae Schrank) (annuae Oestlund) (mali Fitch non Fabricius) (fitchii Sanderson) (crataegifoliae Fitch) Theobald, 1916a, p. 171.

*Siphonaphis padi* L. (A. avenae Fab.) van der Goot, 1915, p. 244.

#### **P. sinensis.**

*Aphis pomi* DeGeer. Matsumura, 1917a, p. 357.

*Nippolachnus piri* Matsumura. Matsumura, 1917a, p. 355.

*Toxoptera piricola* Matsumura. Matsumura, 1917a, p. 363.

#### **P. sitchensis.**

*Schizoneura lanigera* Hausmann. (S. americana in part, of authors). Patch, 1912a, p. 395.

#### **P. torminalis** Ehrh. (tormentalis Buck.).

*Aphis aucupariae* Buckton. Buckton, 2, p. 76.

*Aphis sorbi* Kalt. Buckton, 2, p. 59. Bayer, 1914a, p. 142.

#### **P. sp.**

*Aphis crataegi* Kalt. (pyri Boyer). Kaltenbach, 1874, p. 202.

*Aphis kochi* Schouteden. (pyri Koch nec Boyer). Schouteden, 1906a, p. 221.

*Aphis pyri* Boyer (not pyri Koch). Buckton, 2, p. 98.

#### **ROSA.** Rose.

#### **R. californica** Schlecht.

*Macrosiphum rosae* (Linn.) Essig, 1917a, p. 329.

*Myzus rosarum* Walker. Davidson, 1910, p. 379.

**R. canina** L. Dog Rose.

*Capitophorus tetrarhodus* Walker. (*Siphonophora rosarum* Koch). van der Goot, 1915, p. 131.

*Lachnus rosae* Cholodkovsky. Cholodkovsky (in Russian).

*Macrosiphum dirhodum* (Walker). van der Goot, 1915, p. 63.

*Myzaphis rosarum* Kalt. (not Lichtenstein nor Buckton). van der Goot, 1915, p. 188.

*Semiaphis trirhodus* Walker. (*Hyalopterus aquilegiae* Koch). van der Goot, 1915, p. 273.

*Siphonophora rosae* (Reaumur) Koch. Buckton, 1, p. 109.

*Siphonophora rosae* var. *glauca* Buckton. Buckton, 1, p. 109.

*Siphonophora rosae* (Koch) (*Aphis rosae* L. auct.) (*A. dipsaci* Schrank). Passerini, 1863, p. 11.

*Siphonophora rosarum* (Walker) Koch. Buckton, 1, p. 151.

**R. centifolia** L.

*Aphis dirhoda* Walker. Walker, 1849a, p. 43.

*Aphis rosae* Linn. (*A. dipsaci* Schrank) (*Puceron du Rosier* Gotz.) Kaltenbach, 1843, p. 4.

*Aphis rosarum* Kalt. Kaltenbach, 1874, p. 224.

*Hyalopterus delineatus* Buckton. Buckton, 2, p. 113.

*Siphonophora glauca* Buckton. Buckton, 1, p. 109.

*Siphonophora rosae* (Reaumur) Koch. Buckton, 1, p. 109.

**R. cinnamomea** L. Cinnamon Rose.

*Hyalopterus aquilegiae-flavus* (Kittel) (*Aphis*) (*flavus* Schouteden) (*aquilegiae* Koch) (*trirhoda* Walker). Hayhurst, 1909a, p. 108.

**R. Eglanteria** L.

*Aphis dirhoda* Walker. Walker, 1849a, p. 43.

**R. gallica** L.

*Aphis rosarum* Kalt. Kaltenbach, 1874, p. 224.

*Hyalopterus aquilegiae-flavus* (Kittel) (*Aphis*) (*flavus* Schouteden) (*aquilegiae* Koch) (*trirhoda* Walker). Hayhurst, 1909a, p. 112.

*Hyalopterus delineatus* Buckton. Buckton, 2, p. 113.

*Myzus tetrarhoda* (Walker) Pass. (*S. rosarum* Koch). Passerini, 1863, p. 25.

*Siphonophora rosaecola* Passerini. Passerini Flora.

**R. indica** L.

*Hyalopterus aquilegiae-flavus* (Kittel) (*Aphis*) (*flavus* Schouteden) (*aquilegiae* Koch) (*trirhoda* Walker). Hayhurst, 1909a, p. 112.

*Myzus tetrarhoda* (Walker) Pass. (*S. rosarum* Koch). Passerini, 1863, p. 25.

**R. multiflora.**

*Macrosiphum ibarae* Matsumura. Matsumura, 1917a, p. 360.

**R. rubiginosa** L.

*Siphonophora rosae* Koch. (*Aphis rosae* L. auct.) (*A. dipsaci* Schrank). Passerini, 1863, p. 11.

*Siphonophora rosarum* (Walk.) Koch. Buckton, 1. p. 151.

**R. sempervirens** L.

*Hyalopterus trirhoda* Walker. Macchiati, 1883, p. 237.

*Myzus tetrarhoda* Walker. Macchiati, 1883, p. 236.

**R. sp.**

*Aphis* (*Adactynus*) *diplepha* Rafinesque. Rafinesque, 1818.

*Aphis* (*Adactynus*) *rhodryas* Rafinesque. Rafinesque, 1818.

*Aphis* (*Adactynus*) *rosa-suaveolens* Rafinesque. Rafinesque, 1818.

*Hyadaphis flavus* Kittel (*aquilegiae* Koch) (*trirhodus* Walker) Schouteden, 1906a, p. 230.

*Hyalopterus trirhoda* (Walker) Pass. (*H. aquilegiae* Koch) Buckton, 2, p. 115.

*Lachnus maculatus* Lichtenstein. Lichtenstein La Flore.

*Lachnus rosae* Cholodkovsky. Patch, 1917a, p. 418.

*Lachnus rosae* Cholodkovsky. (*maculatus* Licht?) (*rosarum* van der Goot). van der Goot, 1915a, p. 409.

*Macrosiphum rosae* Reaumur. (*A. dipsaci* Schrank) (*S. rosae* Koch) (*S. scabiosae* Buckton). van der Goot, 1915, p. 90.

*Macrosiphum solanifolii* Ashmead. Patch, 1915c, p. 214.

*Myzus rosarum* (Walker) (*potentillae* Oestl.) Oestlund, 1887, p. 73.

*Myzus roseus* Macchiati. Lichtenstein La Flore.

*Nectarophora pallida* Oestlund. Oestlund, 1887, p. 84.

*Rhopalosiphum nervatum* Gillette. Gillette, 1908a, p. 63.

*Siphonophora rosae* var. *floridae* Ashmead. Ashmead, 1882, p. 88.

*Siphonophora rosae* Reaumur. Theobald, 1911, p. 16.

*Siphonophora ulmariae* Schrank. (*onobrychis* Boyer) (*pisi* Kalt.) (*gei* Koch). Ferrari, 1872, p. 55.

**RUBUS.** Bramble.**R. cassius** L.

*Aphis rubi* Kalt. Kaltenbach, 1874, p. 239.

*Aphis urticae* Fab. (*urticaria* Kalt.) Passerini, 1863, p. 37.

**R. corylifolius** Sm. Fl. Brit.

*Aphis rubi* Kalt. Kaltenbach, 1843, p. 24.

**R. dalmaticus** D. C.

*Hyalopterus trirhoda* Walker. Macchiati, 1883, p. 237.

**R. discolor.**

*Aphis rubi* Kalt. Kaltenbach, 1874, p. 239.

**R. fruticosus** L.

*Aphis urticae* Fab. (*urticaria* Kalt.) Ferrari, 1872, p. 65.

*Aphis urticaria* Kalt. Buckton, 2, p. 51.

*Macrosiphum chelidonii* Kaltenbach? Theobald, 1913, p. 54.

*Siphonophora cyparissiae* Koch. Buckton, 1, p. 114.

- Siphonophora rubi* (Kalt.) Koch. Buckton, 1, p. 141.
- R. idaeus** L. (aculeatissimus. Wild Red Raspberry) (strigosus Michx). Raspberry.  
*Aphis idaei* van der Goot. van der Goot, 1915, p. 204.  
*Aphis rubicola* Oestlund. Oestlund, 1887, p. 60.  
*Aphis urticae* Fab. Passerini, 1874, p. 2.  
*Aphis urticaria* Kalt. Buckton, 2, p. 51.  
*Macrosiphum rubicola* (Oestlund). Oestlund, 1887, p. 78.  
*Siphonophora chelidonii* (Kalt.) Koch. Buckton, 1, p. 122.  
*Siphonophora funesta* Macchiati. Zoological Record, 1885, p. 240.  
*Siphonophora rubi* (Kalt.). Koch. Buckton, 1, p. 141.
- R. nutkanus** Moc.  
*Amphorophora rubicola* (Oestlund). Davidson, 1914, Jour. Ec. Ent. Vol. 7, p. 136.
- R. occidentalis** L. Black Raspberry. Thimbleberry.  
*Amphorophora rubi* (Kalt.) Gillette, 1911a, p. 381.  
*Aphis* sp. Sanborn, 1904, p. 62.  
*Pemphigus rubi* Thomas. "Accidental visitant?" Thomas, 1879, p. 148.
- R. parviflorus** Nutt. Thimbleberry.  
*Nectarosiphum rubicola* (Oestlund). Essig, 1917a, p. 328.
- R. saxatilis** L.  
*Nectarosiphum rubi* (Kaltenbach). Bayer, 1914a, p. 133.
- R. villosus** Ait. Dewberry.  
*Nectarophora rubi* (Kalt.). Hunter, 1901, p. 116.  
*Sipha rubifolii* Thomas. Sanborn, 1904, p. 44.  
("Undescribed genus?" Davis, 1909b, p. 157.).
- R. vitifolius** C. & S. Wild Blackberry.  
*Amphorophora rubi* (Kalt.) Essig, 1917a, p. 330.

#### SANGUISORBA. Burnet.

- S. sp.**  
*Aphis sanguisorbae* Schrank. Kaltenbach, 1874, p. 245.

#### SPIRAEA.

- S. prunifolia** Sieb.  
*Aphis spiraeella* Schouteden. Gillette, 1910, p. 404.
- S. salicifolia** Linn. Meadow-sweet.  
*Aphis spiraeae* Oestlund. Oestlund, 1887, p. 68.  
*Aphis spiraeella* Schouteden. Essig, 1911a, p. 463.  
*Macrosiphum ulmariae* (Schrank). Bayer, 1914a, p. 135.
- S. Thunbergi.**  
*Aphis kogomecola* Matsumura. Matsumura, 1917a, p. 357.
- S. ulmaria.** See Filipendula.
- S. sp.**  
*Acyrtosiphon ignotum* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 147.



*Acyrtosiphon soldatovi* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 168.

*Aphis pisi* Kalt. (*ulmariae* Schrank). Kaltenbach, 1874, p. 242.

*Aphis* n. sp. Kalt. Kaltenbach, 1874, p. 243.

*Macrosiphum cholodkovsky* Mordwilko. Zoological Record, 1909, p. 404.

*Macrosiphum portschinskyi* Mordwilko. Zoological Record, 1909, p. 404.

#### ULMARIA.

U. *ulmaria*. See *Filipendula*.

### LEGUMINOSAE. PULSE FAMILY.

#### ANAGYRIS.

A. sp.

*Aphis craccivora* Koch. Lichtenstein La Flore.

#### ASTRAGALUS. Milk Vetch.

A. *bisulcatus* Hook.

*Aphis medicaginis* Koch. Cowen, 1895, p. 120.

A. *leucopis* Torr. Loco Weed.

*Aphis medicaginis* Koch. Essig, 1912, Host Index II, p. 826.

A. sp.

*Rhopalosiphum persicae* Sulzer. Matsumura, 1917a, p. 362.

#### CARAGANA.

C. *arborescens* Lam.

*Acyrtosiphon caraganae* (Cholodkovsky) (*pisi* Bogdanov) (*ulmariae* part, Cholodkovsky). Mordwilko, 1914, Faune de la Russie, p. 152.

*Aphis medicaginis* Koch. Hunter, 1901, p. 101.

C. *pymaea* D. C.

*Acyrtosiphon caraganae* (Cholodkovsky) Mordwilko, 1914, Faune de la Russie, p. 153.

#### CERATONIA.

C. sp.

*Aphis ceratoniae* Licht. (ined.). Lichtenstein La Flore.

#### CERCIS. Redbud.

C. *canadensis* L. Redbud.

*Lachnus longistigma* Monell. Sanborn, 1904, p. 31.

#### COLUTEA.

C. *arborescens* L.

*Aphis pisi* Kalt. Kaltenbach, 1874, p. 134.

*Pemphigus coluteae* Pass. Passerini, 1863, p. 75.

*Siphonophora ulmariae* (Schrank and Walker) (onobrychis Boyer) (pisi Kalt.) (pisi Koch) (gei Koch). Passerini, 1863, p. 13.

### CORONILLA.

#### C. pusilla.

*Aphis coronillae* Ferrari. Ferrari, 1872, p. 69.

### CYTISUS. Broom.

#### C. laburnum. See Laburnum vulgare.

#### C. nigricans L.

*Aphis laburni* Kalt. Passerini Flora.

#### C. scoparius (L.) Link. Sarothamnus scoparius L. (Spartum scoparius). Scotch Broom.

*Aphis genistae* Kaltenbach. Theobald, 1911-12.

*Aphis laburni* Kalt. (genistae Boyer). Passerini, 1863, p. 45.

*Aphis pisi* Kalt. Kaltenbach, 1874, p. 107.

*Aphis setosa* Kalt. Kaltenbach, 1874, p. 107.

*Aphis spartii* Koch. Kaltenbach, 1874, p. 108.

*Siphonophora menthae* Buckton. Buckton, 1, p. 121.

*Siphonophora rubi* (Kalt.) Koch. Buckton, 1, p. 141.

#### C. (Sarothamnus).

*Schizoneura spartanthi* Boisduval. Lichtenstein, Flore Supplement.

*Siphonophora ulmariae* Pass. Passerini Flora.

### DESMODIUM. Tick Trefoil.

#### D. canadense DC.

*Microparsus variabilis* Patch. (Macrosiphum n. sp. Sanborn Kans. Aphid. p. 71). Patch, 1909b, p. 337.

#### D. canescens L.

*Siphonophora desmodii* Williams. Williams, 1910 (1911), p. 76.

### DOLICHOS.

#### D. monacalis.

*Aphis medicaginis* Koch. Del Guercio, 1909 (1910), Redia VII, p. 297.

#### D. sp.

*Aphis dolichii* Signoret. Lichtenstein, Flore Supplement.

### ERVUM. See Vicia.

### FABA.

#### F. vulgaris. See Vicia Faba.

### GENISTA. Woad-waxen.

#### G. anglica L.

*Aphis genistae* Kalt. Kaltenbach, 1874, p. 113.



*Aphis rumicis* Linn. Walker, 1850a, p. 19.

**G. germanica** L.

*Aphis genistae* Scopoli. Passerini, 1863, p. 47.

**G. ovata** Waldst.

*Aphis craccae* Schrank. Ferrari, 1872, p. 71.

**G. tinctoria** L. Dyer's Greenweed.

*Acyrtosiphon genistae* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 144.

*Aphis genistae* Kalt. Kaltenbach, 1874, p. 113.

*Aphis laburni* Kalt. Pierre, 1905, p. 160.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

**G. sp.**

*Aphis genistae* Boyer. Lichtenstein, La Flore.

*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) *genistae* Scopoli. van der Goot, 1915, p. 225.

*Siphonophora ulmariae* (Schrank, Walker) (onobrychis Boyer) (pisi Kalt.) (pisi Koch) (gei Koch). Passerini, 1863, p. 13.

**GLYCINE.**

**G. hispida.**

*Aphis glycines* Matsumura. Matsumura, 1917a, p. 531.

**G. sp.**

*Macrosiphum solani* Kalt. Matsumura, 1917a, p. 361.

*Rhopalosiphum persicae* Sulzer. Matsumura, 1917a, p. 362.

**GLYCYRRHIZA.** Liquorice.

**G. lepidota** Nutt. Wild Liquorice.

*Aphis medicaginis* Koch. Gillette and Taylor, 1908, p. 32.

**HEDYSARUM.**

**H. onobrychis.** See *Onobrychis viciaefolia* Scop.

**LABURNUM.**

**L. vulgare** Gris. (*Cytisus laburnum*).

*Aphis cytisorum* Hartig. Hartig, 1841, p. 370.

*Aphis laburni* Kalt. Buckton, 2, p. 86. Theobald, 1911-12. van der Goot, 1915, p. 210.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

**LATHYRUS.** Everlasting Pea.

**L. angustifolius.**

*Macrosiphum pisi* (Kaltenbach) (*A. lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass. nec Schrank) (*N. destructor* Johnson) (*M. trifolii* Pergande) Davis, 1915a, p. 12.

**L. hirsutus** Linn. (*Orobus lathyroides* Habl.).

*Acyrtosiphon pisi pisi* (Kalt.) Mordwilko, 1914, Faune de la Russie, p. 86.

**L. latifolius L.** Everlasting or Perennial Pea.

*Acyrtosiphon pisi pisi* (Kalt.) Mordwilko, 1914, Faune de la Russie, p. 85.

*Macrosiphum pisi* (Kaltenbach) (*A. lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass. nec Schrank) (*N. destructor* Johnson) (*M. trifolii* Pergande) Davis, 1915a, p. 11.

*Siphonophora ulmariae* (Schrank, Walker) (*onobrychis* Boyer) (*pisi* Kalt.) (*pisi* Koch) (*gei* Koch). Passerini, 1863, p. 13.

*Siphonophora viciae* Kalt. Ferrari, 1872, p. 56.

**L. odoratus L.**

*Aphis bakeri* Cowen. Patch, 1913, Bul. 207, p. 448.

*Aphis dissita* Walker. Walker, 1849c, p. 34.

*Macrosiphum pisi* (Kaltenbach) (*Aphis lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass. nec Schrank) (*N. destructor* Johnson) (*N. trifolii* Pergande). Davis, 1915a, p. 11.

**L. pratensis L.**

*Macrosiphum pisi* (Kaltenbach) (*A. lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass. nec Schrank) (*N. destructor* Johnson). (*M. trifolii* Pergande). Davis, 1915a, p. 11.

*Rhopalosiphum viciae* (Kaltenbach). van der Goot, 1915, p. 153.

**L. sativus.** Grass Pea.

*Macrosiphum pisi* (Kaltenbach) (*Aphis lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass. nec Schrank) (*N. destructor* Johnson) (*M. trifolii* Pergande). Davis, 1915a, p. 11.

**L. sylvestris.** Flat Pea.

*Macrosiphum pisi* (Kaltenbach) (*A. lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass nec Schrank) (*N. destructor* Johnson) (*M. trifolii* Pergande) Davis, 1915a, p. 11.

**L. sp.**

*Acyrtosiphon pisi ussuriensis* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 140.

*Megoura viciae* Kaltenbach (*viciae* Buckton). Theobald, 1911-12.

**LESPEDEZA.****L. bicolor.**

*Macrosiphum hagicola* Matsumura. Matsumura, 1917a, p. 360.

**L. sp.**

*Macrosiphum solani* Kalt. Matsumura, 1917a, p. 361.

**LOTUS.** Bird's-foot Trefoil.**L. corniculatus L.**

*Aphis craccae* Linn. (*A. viciae* Fab.). Theobald, 1911-12.

*Aphis loti* Koch. Del Guercio, 1909 (1910), Redia VII, p. 298.

*Aphis loti* Kaltenbach. Schouteden, 1906a.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Macrosiphum lathyri* Walker? Theobald, 1911-12.

*Macrosiphum loti* Theobald. Theobald, 1913, Jour. Ec. Biol. Vol. 8, p. 54.

*Macrosiphum pisi* Kalt. (lathyri Walker) (cyparissiae Koch) (ononis Koch) van der Goot, 1915, p. 85.

**L. uliginosus** Schkuhr.

*Siphonophora pisi* (Kalt.) Koch. (ulmariae Schrank) (onobrychis Boyer) (lathyri Walker). Buckton, 1, p. 135.

**L. sp.**

*Siphonophora ulmariae* (Schrank, Walker) (onobrychis Boyer) (pisi Kalt.) (pisi Koch) (gei Koch). Passerini, 1863, p. 13.

**LUPINUS.** Lupine.

**L. albifrons.**

*Macrosiphum albifrons* Essig. Essig, 1911b, p. 546.

**L. arboreus** Sims. Tree Lupine.

*Macrosiphum albifrons* Essig. Essig, 1917a, p. 328.

**L. latifolius** Agarth.

*Macrosiphum albifrons* Essig. Essig, 1917a, p. 328.

**MEDICAGO.** Medick.

**M. denticulata** Willd.

?*Aphis gossypii* Glover. Fullaway, 1909, p. 39.

*Aphis medicaginis* Koch. Davidson, 1909, p. 302.

**M. falcata** Linn.

*Aphis medicaginis* Koch. Kaltenbach, 1874, p. 123.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande) Davis, 1915a, p. 11.

*Siphonophora ulmariae* Schrank (pisi Kalt.) Mordwilko, 1909, p. 103.

**M. lupulina** L. Black Medick. Nonesuch.

*Siphonophora ulmariae* Schrank (A. onobrychis Boyer) (A. pisi Kalt.) (S. pisi Koch) (S. gei Koch. Macchiati, 1883, p. 232.

**M. orbicularis** All.

*Aphis medicaginis* Koch. Macchiati, 1883, p. 255.

**M. sativa** L. Lucerne. Alfalfa.

*Acyrtosiphon pisi turanicum* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 139.

*Aphis medicaginis* Koch. Passerini, 1863, p. 42.

*Callipterus trifolii* Monell. (Chaitophorus maculatus Buckton) (Aphis ononidis Kalt?) Davis, 1914, U. S. D. A., B. E. Tech. Ser. 25, Pt. II.

*Chaitophorus maculatus* Buckton. Buckton, 1899b, p. 277.

*Macrosiphum creelii* Davis. Davis, 1914, Can. Ent. 46, p. 47.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande) Davis, 1915a, p. 11.

*Myzocallis ononidis* (Kalt.) Pass. (C. ononidis Koch). Passerini, 1863, p. 54.

*Pemphigus betae* Doane. Parker, 1914, p. 137. Jour. Ec. Ent. Vol. 7.

*Siphonophora ulmariae* (Schrank, Walker) (onobrychis Boyer) (pisi Kalt.) (pisi Koch) (gei Koch). Passerini, 1863, p. 13.

### MELILOTUS. Sweet Clover.

**M. alba** Lam. White Melilot.

*Aphis medicaginis* Koch. Hunter, 1901, p. 126.

*Macrosiphum pisi* (Kaltenbach) (*Aphis lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass. nec Schrank) (*N. destructor* Johnson) (*M. trifolii* Pergande) Davis, 1915a, p. 11.

**M. italica** Lam.

*Aphis medicaginis* Koch. Hunter, 1901, p. 101.

**M. pallida** Bess. (macrorhiza).

*Pemphigus lactucarius* Pass. Passerini, 1863, p. 77.

**M. sp.**

*Aphis papaveris* Fab. Lichtenstein, Flore Supplement.

### MIMOSA.

**M. sp.**

*Aphis mimosae* Ferrari. Lichtenstein, La Flore.

### ONOBRYCHIS.

**O. viciaefolia** Scop. (sativa) (*Hedysarum Onobrychis*).

*Aphis pisi* Kalt. (*A. ulmariae* Schrank) (*onobrychis* Boyer) Kaltenbach, 1874, pp. 118, 137.

*Siphonophora ulmariae* Pass. (*Aphis ulmariae* Boyer). Kaltenbach, 1874, p. 777.

### ONONIS.

**O. diffusa**. See *O. serrata*.

**O. hircina** Jacq.

*Acyrtosiphon pisi pisi* (Kalt.) Mordwilko, 1914, Faune de la Russie, p. 85.

*Myzocallis ononidis* (Kalt.) Pass. (*C. ononidis* Koch.). Passerini, 1863, p. 54.

**O. Natrix** L.

*Aphis apocyni* Koch. Ferrari, 1872, p. 68.

*Aphis brunnea* Ferrari. Ferrari, 1872, p. 70.

**O. repens** L.

*Macrosiphum pisi* Kalt. (*lathyri* Walker) (*cyparissiae* Koch.) (*ononidis* Koch.) van der Goot, 1915, p. 84.

*Macrosiphum pisi* (Kaltenbach) (*A. lathyri* Mosley) (*A. onobrychis* B. de Fonsc?) (*S. ulmariae* Pass. nec Schrank) (*N. destructor* Johnson) (*M. trifolii* Pergande) Davis, 1915a, p. 11.

*Myzocallis ononidis* Pass. Passerini Flora.

*Pergandeida ononidis* Schouteden. Schouteden, 1906a, p. 215.

*Siphonophora ulmariae* Pass. Passerini Flora.

**O. serrata** Forsk. (diffusa).

*Myzocallis ononidis* Kalt. (*Chaitophorus ononidis* Koch). Macchiati, 1883, p. 260.

*Siphonophora ononis* Koch. Macchiati, 1883, p. 230.

**O. spinosa** L.

*Aphis incumbens* Walker. Walker, 1849c, p. 35.

*Aphis inducta* Walker. Walker, 1849c, p. 35.

*Aphis translata* Walker. Walker, 1849c, p. 35.

*Chaitophorus ononidis* Kalt. (*Ch. spinulosus* Koch in litt.). Koch, p. 5.

*Myzocallis ononidis* Kalt. (*Aphis*). Ferrari, 1872, p. 75.

*Siphonophora ononis* Koch. Koch, p. 175.

*Siphonophora ulmariae* Pass. Passerini Flora.

**O. sp.**

*Aphis brunnea* Macchiati. Zoological Record, 1885, p. 239.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Therioaphis ononidis* (Pass.) Walker. Wilson, 1910, p. 155.

**OXYTROPIS.** (*Aragallus*.)

**O. lamberti** Pursh. (*Aragallus lamberti*).

*Aphis medicaginis* Koch. Williams, 1891, p. 20.

**PHASEOLUS.** Kidney Bean.

**P. coccineus** L.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Tychea phaseoli* Pass. Buckton, 4, p. 90.

**P. lunatus** L.

?*Aphis gossypii* Glover. Fullaway, 1909, p. 39.

**P. multiflorus** Willd. Scarlet Runner.

*Pemphigus globosus* Walker. Walker, 1852, p. 1057.

*Siphonophora ulmariae* Pass. Passerini Flora.

*Tychea phaseoli* Pass. Passerini Flora.

**P. vulgaris** L. (*nanus*).

*Aphis gossypii* Glover. (*citrifolii* Ashm. in part) (*citrulli* Ashm.) (*cucumeris* Forbes) (*forbesi* Weed?). Pergande, 1895, p. 314.

*Aphis papaveris* Fab. Del Guercio, 1909 (1910), Redia VII, p. 297.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Lachnus longitarsus* Ferrari. Zoological Record, 1872, p. 418.

*Macrosiphum solanifolii* Ashmead. Patch, 1915e, p. 214.

*Tullgrenia phaseoli* Pass. van der Goot, 1915a, p. 516.

*Tychea phaseoli* Pass. Hunter, 1901, p. 69.

**P. sp.**

*Aphis pseudobrassicae* Davis. Paddock, 1915a, p. 9.

*Aphis rumicis* (*evonymi* Fab.) (*papaveris* Fab.) (*atriplicis* Fab.) (*genistae* Scopoli). van der Goot, 1915, p. 225.

*Siphonophora ulmariae* (Schrank, Walker) (*onobrychis* Boyer) (*pisi* Kalt.) (*pisi* Koch) (*gei* Koch). Passerini, 1863, p. 13.

## PISUM.

**P. arvense** L.

*Aphis pisi* Kalt. Kaltenbach, 1874, p. 118.

**P. sativum** L. Garden Pea.

*Acyrtosiphon pisi turanicum* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 139.

*Aphis crataegifoliae* Fitch. Quaintance and Baker, 1917, p. 18.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Macrosiphum pisi* Kalt. (lathyri Walker) (cyparissiae Koch) (ononis Koch) van der Goot, 1915, p. 86.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande) Davis, 1915a, p. 11.

*Macrosiphum solanifolii* Ashmead. Patch, 1915e, p. 214.

*Siphonophora ulmariae* (Schrank, Walker) (onobrychis Boyer) (pisi Kalt.) (pisi Koch). Passerini, 1863, p. 13.

**P. sp.**

*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) genistae Scopoli). van der Goot, 1915, p. 225.

*Macrosiphum solani* Kalt. Matsumura, 1917a, p. 361.

*Myzus pergandii* Sanderson. Sanderson, 1901a, p. 73.

## ROBINIA. Locust.

**R. Pseudo-Acacia** L. Common Locust. False Acacia.

*Aphis laburni* Kalt. Cholodkovsky, 1910, p. 145.

*Aphis robiniae* Macchiati. Del Guercio, 1900, p. 133.

*Callipterus robiniae* Gillette. Gillette, 1907a, p. 395.

*Rhopalosiphum dianthi* (Schrank). Williams, 1891, p. 7.

**R. viscosa** Vent. Clammy Locust.

*Aphis medicaginis* Koch. Hunter, 1901, p. 101.

## SAROTHAMNUS. See Cytisus.

## SPARTIUM.

**S. junceum** L.

*Siphonophora ulmariae* Schrank. (A. onobrychis Boyer) (A. pisi Kalt.) (S. pisi Koch) (S. gei Koch). Macchiati, 1883, p. 232.

**S. sp.**

*Aphis laburni* Kalt. Lichtenstein, La Flore.

## TEPHROSIA. (Cracca). Hoary Pea.

**T. sp.**

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Aphis viciae* Kalt. Kaltenbach, 1874, p. 143.

## TRIFOLIUM.

**T. filiforme.**



*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande) Davis, 1915a, p. 11.

**T. hybridum.** Alsike Clover.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 12.

**T. incarnatum** L. Crimson or Italian Clover.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande) Davis, 1915a, p. 11.

*Nectarophora pisi* Kalt. (ulmariae Schrank) (onobrychis Boyer) (lathyri Mosley) (gei Koch) (viciae Curtis not Fab.) (destructor Johnson). Sanderson, 1900, p. 171.

**T. medium perenne.** Mammoth Clover.

*Callipterus trifolii* Monell. (Chaitophorus maculatus Buckton) (Aphis ononidis Kalt?) Davis, 1914, U. S. D. A. Bur. Ent., Ser. 25, Pt. II.

**T. pratense** L. Red Clover.

*Aphis bakeri* Cowen. Davis, 1908, p. 259.

*Aphis gossypii* Glover (citrifolii Ashm. in part) (citrulli Ashm.) (cucumeris Forbes) (forbesi Weed?) Pergande, 1895, p. 314.

*Aphis pisi* Kalt. Kaltenbach, 1874, p. 118.

*Callipterus trifolii* Monell. (Chaitophorus maculatus Buckton) (Aphis ononidis Kalt?). Davis, 1914, U. S. D. A. Bur. Ent. Tech. Ser. 25, Pt. II.

*Macrosiphum cerealis* (Kalt.) Pergande, 1904a, p. 20.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 11.

*Macrosiphum pisi* Kalt. (lathyri Walker) (cyparissiae Koch) (ononis Koch). van der Goot, 1915, p. 86.

*Myzocallis trifolii* (Monell). Gillette, 1910, p. 369. (genevii Sanborn). Baker, 1917f, p. 424.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 35.

**T. procumbens** L. Low Hop Clover.

*Macrosiphum trifolii* Theobald. Theobald, 1913, Jour. Ec. Biol. Vol. 8, p. 55.

*Myzocallis ononidis* (Kalt.) Pass. (C. ononidis Koch). Passerini, 1863, p. 54.

**T. repens** L. White Clover

*Aphis cephalicola* Cowen. Cowen, 1895, p. 118.

*Aphis trifolii* Oestlund. Oestlund, 1887, p. 55.

*Callipterus trifolii* Monell. (Chaitophorus maculatus Buckton) (Aphis ononidis Kalt?) Davis, 1914, U. S. D. A. Bur. Ent., Tech. Ser. 25, Pt. II.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmicariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 11.  
*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 35.

# T. sp.

*Aphis bakeri* Cowen. Patch, 1915b, p. 433.  
*Aphis brevis* Sanderson. Patch, 1915b, p. 431.  
*Aphis crataegifoliae* Fitch. Quaintance and Baker, 1917, p. 18.  
*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) (genistae Scopoli). van der Goot, 1915, p. 225.  
*Aphis scaliae* Del Guercio. Del Guercio, 1914.  
*Geioica squamosa* Hart. Hart, 1891 and 1892, p. 99.  
*Rizoberlesia trifolii* Del Guercio. Del Guercio, 1914.

# ULEX. Furze.

# U. europaeus L.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

# U. sp.

*Aphis papaveris* Fab. Lichtenstein, Flore Supplement.  
*Aphis rumicis* Linn. (fabae Kirby) (genistae Scop.) (ulicis Fab?) (euphorbiae Kalt?) (dahliae Mosley) (Cinara rumicis Mosley) (Rumicifex Amyot) (Genistifex Amyot). Buckton, 2, p. 84.

# VICIA. Ervum. Vetch. Tare.

# V. amoena.

*Acyrtosiphon pisi pisi* (Kalt.) Mordwilko, 1914, Faune de la Russie, p. 86.

# V. cracca L.

*Aphis craccae* Linn. Kaltenbach, 1874, p. 144.  
*Aphis craccae* Schrank. (A. viciae craccae L.). Passerini, 1863, p. 46.  
*Aphis craccivora* Koch. Kaltenbach, 1874, p. 144.  
*Aphis rumicis* Linn. Thomas, 1879, p. 88.  
*Aphis viciae* Kalt. Kaltenbach, 1874, p. 143.  
*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande) Davis, 1915a, p. 12.

# V. Faba L. (Faba vulgaris).

*Aphis papaveris* Fab. (thlaspeos Schrank) (aparines) (fabae Scopoli). Ferrari, 1872, p. 71.  
*Aphis rumicis* Linn. Walker, 1850a, p. 19.  
*Aphis viciae* Kalt. Kaltenbach, 1874, p. 143.

# V. gigantea Hook.

*Macrosiphum pisi* (Kaltenbach) (A. onobrychis B. de Fonsc?) (A. lathyri Mosley) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 11.

# V. ludoviciana Nutt.



*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 11.

**V. narbonensis** L.

*Aphis medicaginis* Koch. Passerini, 1863, p. 42.

**V. pseudo-cracca** Bert.

*Aphis craccae* Schrank. Macchiati, 1883, p. 240.

**V. pulchella** H. B.

*Aphis atronitens* Cockerell. Cockerell, 1903b, p. 115. "Vicia aff. pulchella."

**V. sativa** L. (angustifolia). Spring Vetch.

*Aphis craccae* L. Kaltenbach, 1874, p. 144.

*Aphis papaveris* Fab. (fabae Scop.) (aparines Schrank). Passerini, 1863, p. 46.

*Aphis viciae* Kalt. Kaltenbach, 1874, p. 143.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 12.

**V. sepium** L.

*Aphis tribulis* Walker. Walker, 1849c, p. 34.

*Aphis viciae* Kalt. Kaltenbach, 1874, p. 143.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 12.

**V. villosa** Roth...Hairy or Winter Vetch.

*Macrosiphum pisi* (Kaltenbach) (A. lathyri Mosley) (A. onobrychis B. de Fonsc?) (S. ulmariae Pass. nec Schrank) (N. destructor Johnson) (M. trifolii Pergande). Davis, 1915a, p. 11.

**V. sp.**

*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) (genistae Scopoli). van der Goot, 1915, p. 225.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

**VIGNA.**

**V. catjang** Walpers.

*Aphis medicaginis* Koch. Essig, 1917a, p. 340.

**V. sinensis.**

*Melanoxanthus sinensis* Matsumura. Matsumura, 1917a, p. 359.

**LEGUMINOSAE.**

**L. sp.**

*Acyrtosiphon dubium* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 180. "in quadam Papilionacearum."

**LINACEAE. FLAX FAMILY.**

**LINUM.** Flax.

**L. sp.**

*Pemphigus betae* Doane. Parker, 1914, p. 137. Jour. Ec. Ent., Vol. 7.

## OXALIDACEAE. WOOD SORREL FAMILY.

### OXALIS. Wood Sorrel.

**O. corniculata** L. Lady's Sorrel.

*Aphis oxalis* Macchiati. Macchiati, 1883, p. 256.

**O. stricta** L.

*Aphis maidi-radici* Forbes. Davis, 1909b, p. 124.

**O. sp.**

*Aphis maidis* Fitch. Davis, 1909b, p. 145.

*Rhopalosiphum dianthi* (Schränk.). Williams, 1891, p. 19.

## GERANIACEAE. GERANIUM FAMILY.

### ERODIUM. Storksbill.

**E. Botrys** Bert.

*Siphonophora malvae* Mosley. (*A. pelargonii* Kalt.) (*A. pallida* Walker) (*S. pelargonii* Koch) (*S. diplantherae* Koch). Macchiati, 1883, p. 230.

**E. cicutarium** L'Herit. ex Ait.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

### GERANIUM. Cranesbill.

**G. maculatum** L. Wild Cranesbill.

*Nectarophora geranii* Oestlund. Oestlund, 1887, p. 81.

**G. molle** L.

*Aphis geranii* Kalt. Kaltenbach, 1874, pp. 81-82.

*Siphonophora malvae* (Mosley) Pass. (*A. pelargonii* Kalt.) (*A. pallida* Walker) (*S. pelargonii* Koch) (*S. diplantherae* Koch). Passerini, 1863, p. 14.

**G. pusillum** Burm.

*Aphis geranii* Kalt. Kaltenbach, 1874, p. 81.

**G. Robertianum** L. Herb Robert.

*Aphis dianthi* Schrank. Walker, 1850a, p. 394.

*Aphis urticae* Schrank. Kaltenbach, 1874, p. 81.

*Siphonophora pelargonii* Kalt. Koch, pp. 193, 194.

*Siphonophora urticae* (Kalt.). Koch. Buckton, 1, p. 144.

**G. sp.**

*Siphonophora circumflexa* Buckton. Theobald, 1911, p. 17.

*Siphonophora pelargonii* (Kalt.) Koch. (*pallida* Walker) (*fragaria* Walker?) (*diplantherae* Koch?) (*malvae* Pass.) Buckton, 1, p. 137.

### PELARGONIUM.

**P. sp.**

*Aphis extranea* Walker. Walker, 1849c, p. 2251.

*Myzus ribis* Linn. et auct. (Aphis) Ferrari, 1872, p. 62.

*Myzus targionii* Del Guercio. (*Myzus ribis*? Linn. Ferrari). Del Guercio, 1900, p. 152.

*Siphonophora malvae* (Mosley) Pass. (*A. pelargonii* Kalt.) (*A. pallida* Walker) (*S. pelargonii* Koch) (*S. diplantherae* Koch). Passerini, 1863, p. 14.

### TROPAEOLUM.

#### T. majus L.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 35.

#### T. tricolorum Sweet. (tricolor).

*Aphis dianthi* Schrank. Walker, 1850a, p. 122.

#### T. sp.

*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) (genistae Scopoli. van der Goot, 1915, p. 225.

### RUTACEAE. RUE FAMILY.

#### CITRUS.

#### C. Aurantium L. (vulgaris). Orange.

*Aphis citri* Ashmead. Essig, 1909, p. 49.

*Aphis gossypii* Glover. (citrifolii Ashmead, in part) (citrulli Ashmead) (cucumeris Forbes) (forbesi Weed?) Pergande, 1895, p. 314. Essig, 1911c, p. 590.

*Aphis tavaresi* Del Guercio. Tavares, 1908, pp. 142-144.

*Myzus asclepiadis* Pass. Ferrari, 1872, p. 62.

*Myzus citricidus* Kirkaldy. Fullaway, 1909, p. 28.

*Myzus persicae* (Sulzer). Essig, 1911c, p. 600.

*Siphonophora citrifolii* Ashmead. Ashmead, 1882, p. 91. Essig, 1911c, p. 592.

*Toxoptera aurantii* Boyer. (Aphis) (*Aphis camelliae* Kalt.) (*Ceylonia theaecola* Buckton). Phillips and Davis, 1912, p. 8.

*Toxoptera aurantii* Koch. Buckton, 3, p. 135. Essig, 1911c, p. 601.

#### C. Medica L. (limonum) (limetta).

*Aphis tavaresi* Del Guercio.

*Myzus persicae* (Sulzer). Essig, 1911c, p. 600.

*Toxoptera aurantii* Boyer. (Aphis) (*A. camelliae* Kalt.). Ferrari, 1872, p. 62.

#### C. sp.

*Aphis citricola* van der Goot. van der Goot, 1912, "Über einige wahrscheinlich neue Blattlausarten," p. 275.

*Aphis cookii* Essig. (gossypii Essig 1910a). Essig, 1911c, p. 587.

*Aphis dianthi* Schrank. Walker, 1850a, p. 394.

*Aphis medicaginis* Koch. Essig, 1917a, p. 340.

### MELICOPE. (Pelea).

#### M. sp.

*Toxoptera aurantiae* Koch. Fullaway, 1909, p. 32.

## RUTA. Rue.

R. graveolens L. Common Rue.

*Siphonophora jaceae* Linn. Ferrari, 1872, p. 58. Theobald, 1913, p. 54.

## SIMARUBACEAE. QUASSIA FAMILY.

AILANTHUS. Tree of Heaven.

A. glandulosa L.

*Aphis mali* Fab. (A. pomi DeGeer) (A. oxyacanthae Schrank).  
Macchiati, 1883, p. 255.

A. sp.

*Aphis mali* Macchiati. Lichtenstein, Flore Supplement.

## POLYGALACEAE. MILKWORT FAMILY.

POLYGALA. Milkwort.

P. Senega L. Seneca Snakeroot

*Aphis (Adactynus) polygala-senega* Raf. Rafinesque, 1818.

## EUPHORBIACEAE. SPURGE FAMILY.

AND

## BUXACEAE. BOX FAMILY.

ACALYPHA. Three-seeded Mercury.

A. virginica L.

*Aphis gossypii* Glover. (citrifolii Ashm. in part) (citrulli Ashm.)  
(cucumeris Forbes) (forbesi Weed?) Pergande, 1895, p. 314.

## BUXUS.

B. sempervirens L.

*Aphis papaveris* var. *buxi* Del Guercio. Del Guercio, 1909 (1910)  
p. 297. Redia VII.

*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis  
Fab.) (genistae Scopoli). van der Goot, 1915, p. 225.

## EUPHORBIA. Spurge.

E. biglandulosa Desf.

*Aphis euphorbiae* Kalt. Macchiati, 1883, p. 239.

E. corollata L. Flowering Spurge.

*Aphis euphorbia* Kalt. Williams, 1891, p. 18.

E. Cyparissias L. Cypress Spurge.

*Aphis euphorbiae* Kalt. Passerini, 1863, p. 47.

*Siphonophora cyparissiae* Koch. Buckton, 1, p. 114.

E. Esula L.

- Aphis euphorbiae* Kalt. Passerini, 1863, p. 47.
- E. gerardiana** Facq.  
*Acyrtosiphon cyparissiae propinquum* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 193.
- E. hirsuta** (Torr.) Wiegand. (*Euphorbia hypericifolia*).  
*Siphonophora euphorbicola* Thomas. Williams, 1891, p. 24.
- E. lathyris** L. Caper Spurge. Mole Cricket.  
*Tyehca phascoli* Pass. Karsch, 1886, p. 1.
- E. maculata** L. Milk Purslane.  
*Siphonophora euphorbiae* Thomas. Thomas, 1879, p. 57.
- E. marginata** Pursh. Snow-on-the-Mountain.  
*Siphonophora euphorbiae* Thomas. Thomas, 1879, p. 57.
- E. Paralias** L.  
*Aphis rumicis* Linn. Walker, 1850a, p. 18.
- E. Peplus** L. Petty Spurge.  
*Acyrtosiphon cyparissiae cyparissiae* (Koch). Mordwilko, 1914, Faune de la Russie, p. 192.  
*Aphis dianthi* Schrank. Walker, 1850a, p. 394.  
*Aphis euphorbia* Kalt. Macchiati, 1883, p. 239.
- E. Terracina** L.  
*Aphis euphorbiae* Kalt. Macchiati, 1883, p. 239.
- E. sp.**  
*Aphis asclepiadis* Fitch. Oestlund, 1887, p. 60.  
*Aphis cyparissiae* Koch. Kaltenbach, 1874, p. 525.  
*Forda occidentalis* Hart. Davis, 1910b, p. 408.  
*Tyehca brevicornis* Hart. Davis, 1910b, p. 408.

#### RICINUS. Castor-oil Plant.

- R. communis** L.  
*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 35.

### CALLITRICHACEAE. WATER STARWORT FAMILY.

#### CALLITRICHE. Water Starwort.

- C. stagnalis** Scop.  
*Rhopalosiphum nymphacae* Koch. Passerini, Flora.

### ANACARDIACEAE. CASHEW FAMILY.

#### PISTACIA.

- P. atlantica** Desf.  
*Pemphigus riccobonii* Stefani. Stefani, 1899, p. 1.
- P. Lentiscus** L.  
*Aphis* (?) *pistaciae* Linn. Kaltenbach, 1843, p. 140.  
*Aploneura lentisci* Pass. Ferrari, 1872, p. 84.
- P. Terebinthus** L.  
*Aphis terebinthinac* Virey. Hagen, p. 440.

- Pemphigus cornicularius* Pass. Lichtenstein, 1880a.  
*Pemphigus cornicularius* Pass. (*A. pistaciae* L. auct. partim).  
 Passerini, 1863, p. 72.  
*Pemphigus corniculoides* Licht. Lichtenstein, 1880a.  
*Pemphigus derbesi* Licht. (*P. pallidus* Derbes). Buckton, 3, p. 128.  
*Pemphigus follicularius* Pass. Lichtenstein, 1880a.  
*Pemphigus folliculoides* Licht. Lichtenstein, 1880a.  
*Pemphigus pallidoides* Licht. Lichtenstein, 1880a.  
*Pemphigus retroflexus* Courchet. Lichtenstein, 1880a.  
*Pemphigus semilunarius* Pass. Lichtenstein, 1880a.  
*Pemphigus semilunoides* Licht. Lichtenstein, 1880a.  
*Pemphigus utricularius* Pass. Lichtenstein, 1880a.  
*Pemphigus utriculoides* Licht. Lichtenstein, 1880a.

**P. vera** L.

*Pemphigus coccus* Buckton, 1889, p. 141.

**P. sp.**

- Ceratopemphigus zehntneri* Schouteden. Schouteden, 1905, p. 188.  
 "on undetermined shrub, possibly a *Pistacia*."  
*Pemphigus edificator* Buckton. Buckton, 1893, p. 71. "found on  
 what was thought to be a variety of *Pistacia terebinthae*."  
*Pemphigus minus* Derbes. Zoological Record, 1869, p. 501.

**RHUS.**

**R. diversiloba** T. and G.

*Rholaposiphum rhois* Monell (*howardii* Wilson?). Essig, 1917a,  
 p. 334.

**R. glabra** L. Smooth Sumach

*Pemphigus rhois* (Fitch). Jackson, 1908, p. 203.  
*Rholaposiphum rhois* Monell. Sanborn, 1904, p. 65.

**R. semilata** Murray.

*Melaphis* (*Schlechtendalia*) *chinensis* (Bell). Baker, 1917j, p. 385

**R. trilobata.**

*Rholaposiphum rhois* Monell. Gillette and Bragg, 1915, Jour. Ec.  
 Ent. p. 100.

**R. typhina** L. Staghorn Sumach.

*Pemphigus rhois* (Fitch). Jackson, 1908, p. 203.

**R. vernicifera.**

*Arimakia araliae* Matsumura. Matsumura, 1917a, p. 363.

**R. sp.**

- Pemphigus cornicularius* Pass. (*pistaciae* L. and Boyer). Kaltenbach, 1874, p. 96.  
*Pemphigus semilunarius* Pass. Kaltenbach, 1874, p. 96.  
*Pemphigus utricularius* Pass. Kaltenbach, 1874, p. 96.  
*Schlechtendalia sinensis* Doubleday. Lichtenstein, La Flore.  
*Tetraneura* (*Aploneura*) *lentisci* Pass. Kaltenbach, 1874, p. 97.

## CYRILLACEAE. CYRILLA FAMILY.

## CYRILLA.

**C. racemiflora** L.

*Pergandeida nigra* Wilson. Wilson, 1911, p. 63.

## AQUIFOLIACEAE. HOLLY FAMILY.

## ILEX. Holly.

**I. Aquifolium** L.

*Aphis ilicis* Kalt. Kaltenbach, 1843, p. 88.

*Aphis rumicis* (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) (genistae Scopoli). van der Goot, 1915, p. 225.

**L. sp.**

*Aphis ilicicola* Boisduval. Zoological Record, 1868, p. 416.

*Aphis ilicis* Kaltenbach. Theobald, 1911-12.

*Aphis rumicis* Linn. (fabae Kirby) (genistae Scop.) (ulicis Fab?) (euphorbiae Kalt?) (dahliae Mosley) (Cinara rumicis Mosley) (Rumicifex Amyot) (Genistifex Amyot). Buckton, 2, p. 84.

## CELASTRACEAE. STAFF TREE FAMILY.

## CELASTRUS. Staff Tree.

**C. articulatus** Thunb.

*Aphis celastrii* Matsumura. Matsumura, 1917a, p. 356.

**C. scandens** L. Waxwork. Climbing Bitter-sweet.

*Nectarophora* sp. Lintner, 1894, p. 512.

## EVONYMUS. (Evonymus). Spindle Tree.

**E. atropurpureus** Jacq. (Waahoo). Burning Bush.

*Aphis euonymi* Fab. Weed, 1893, p. 298.

*Aphis rumicis* L. Thomas, 1879, p. 88.

*Aphis rumicis* L? (euonymi Fab.). Hayhurst, 1909b, p. 98.

*Aphis* sp. Sanborn, 1904, p. 58.

**E. bungeana.**

*Aphis evonymi* Fab. Lingelsheim, 1916a.

**E. Europaeus** L. European Spindle Tree.

*Aphis euonymi* Fab. Buckton, 2, p. 72.

**E. Maaki.**

*Aphis rumicis* Linn. (?aquilegiae nigra Kittel) (atriplicis Fabricius) (armata Hausmann) (aparines Schrank) (dahliae Mosley) (evonymi Fabricius) (papaveris Fabricius) (?solani Kittel) (thlaspeos Schrank). Schouteden, 1906a, p. 227.

**E. verrucosa.**

*Aphis evonymi* Fab. Lingelsheim, 1916a.



## STAPHYLEACEAE. BLADDER NUT FAMILY.

## STAPHYLEA. Bladder Nut.

*S. pinnata* L.

*Amphorophora ampullata* Buckton. (*Rhopalosiphum staphyleae* Koch?) Buckton, 1, p. 187.

*Rhopalosiphum staphyleae* Koch. Koch, p. 33. van der Goot, 1915, p. 151.

## ACERACEAE. MAPLE FAMILY.

## ACER. (Negundo.) Maple.

*A. campestre* L.

*Chaitophorinella lyropicta* Kessler. van der Goot, 1915a, p. 373.

*Chaitophorus aceris* (Linn.) Koch. (*Puceron de l'Erable* Reaum.)

Buckton, 2, p. 126. Passerini, 1863, p. 59.

*Chaitophorus granulatus* Koch. Buckton, 2, p. 140.

*Drepanosiphum acerinum* Walker. (*aceris* Koch). van der Goot, 1915, p. 282.

*Drepanosiphum (Aphis) platanoides* Schrank. van der Goot, 1915a, p. 285.

*Lachnus longirostris* Fab? Passerini, 1860, p. 38.

*Lachnus longirostris* Fab. Kaltenbach, 1874, p. 92.

*Lachnus longirostris* Pass. Kaltenbach, 1874, p. 562.

*Phyllophora testudinacea* Fernie. Fernie, 1852, p. 265.

*Siphonophora (Drepanosiphum) aceris* Koch. Ferrari, 1872, p. 53.

*Stomaphis macrorhyncha* Cholodkovsky. Mordwilko, 1899, p. 411.

*A. circinnatum* Pursh.

*Chaitophorus americanus* Baker. Baker, 1917f, p. 428.

*Chaitophorus* sp. (not *negundinis* and not *aceris*). Gillette, 1909a, p. 388.

*A. japonicum*.

*Chaitophorus aceris* L. Matsumura, 1917a, p. 354.

*A. miyabei*.

*Chaitophorus aceris* L. Matsumura, 1917a, p. 354.

*A. Negundo* (Moench) Koehne. (*Negundo aceroides*) (*Rulac negundo*). Box Elder.

*Chaitophorus negundinis* Thomas. Bragg, 1907, p. 431. Gillette, 1909a, p. 387.

*Drepanosiphum braggii* Gillette. Gillette, 1907a, p. 393.

*Macrosiphum* n. sp. Sanborn. Sanborn, 1904, p. 73.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 35.

*A. palmatum*.

*Chaitophorus aceris* L. Matsumura, 1917a, p. 354.

*Siphocoryne acericola* Matsumura. Matsumura, 1917a, p. 359.

*A. pennsylvanicum* L. Striped Maple. Moosewood.

*Chaitophorus aceris* (Linn.) Hunter, 1901, p. 86.



**A. platanoides** L. Norway Maple.

- Chaitophorinella lyropieta* Kessler. van der Goot, 1915a, p. 373.  
*Chaitophorus aceris* (Fab.) Koch. Passerini, 1863, p. 59.  
*Chaitophorus aceris* (Linn.) Koch (Puceron de l'Erable Reaum.).  
 Buckton, 2, p. 126.  
*Chaitophorus ecracinus* Koch. Koch, p. 2.  
*Chaitophorus lyropieta* Kessler (aceris of most American authors)  
 Baker, 1917f, p. 428.  
*Drepanaphis acerifolii* (Thomas). Essig, 1917a, p. 322.  
*Drepanosiphum platanoides* Schrank (Siphonophora platanoides  
 Pass.) van der Goot, 1915, p. 283.

**A. Pseudo-Platanus** L.

- Aphis acericola* Walker. Kaltenbach, 1874, p. 91.  
*Aphis acerina* Walker. Kaltenbach, 1874, p. 91.  
*Aphis platanoides* Schrank. Kaltenbach, 1874, p. 91.  
*Chaitophorinella aceris* Koch. (*Aphis aceris* Linn. pr. p.). van  
 der Goot, 1915a, p. 371.  
*Chaitophorus ecracinus* Koch. Schouteden, 1906a, p. 213.  
*Drepanosiphum acerina* (Walker). (*D. aceris* Koch). Buckton, 1,  
 p. 186.  
*Drepanosiphum platanoides* (Schrank) Koch. Buckton, 1, p. 183.  
*Myzus gracilis* Buckton. Buckton, 1, p. 177.  
*Phyllophora testudinacca* Fernie. Fernie, 1852, p. 265.  
*Siphonophora aceris* Koch. (*S. aceris* Ferrari). Macchiati, 1883.

**A. saccharinum** L. *Acer dasycarpum* Ehrh. (ericarpum). White or Silver Maple.

- Drepanosiphum (Siphonophora) acerifoliae* Thomas. Thomas,  
 1879, p. 47.  
*Lachnus longistigma* Monell. Sanborn, 1904, p. 31.  
*Longistigma (Lachnus) caryae* (Harris). Wilson, 1909c, p. 385.  
*Melanoxanthus salieti* Harris. Williams, 1891, p. 17.  
*Pemphigus aceris* Monell. Hunter, 1901, p. 77.  
*Pemphigus stamineus* Haldeman. Hunter, 1901, p. 79.  
*Pemphigus tessellata (acerifolii)* Riley. Patch, 1908, p. 484.

**A. saccharum** Marsh. Sugar or Rock Maple.

- Chaitophorus americanus* Baker. Baker, 1917f, p. 429.  
*Drepanaphis? minutus* Davis. Davis, 1910a, p. 195.  
*Pemphigus aceris* Monell. Williams, 1891, p. 17.

**A. sp.**

- Aphis perforata* Signoret. Lichtenstein, La Flore.  
*Aphis platanoides* Hartig. Hartig, 1841, p. 369.  
*Aphis villosus* Hartig. Hartig, 1841, p. 369.  
*Chaitophorinella testudinata* Thornton. (*Aphis aceris* Linn. pr.  
 p.) (*Chaitophorus aceris* Koch pr. p.) (*Periphyllus testudo*  
 Thornton). van der Goot, 1915, p. 377.  
*Chaitophorus aceris* L. (*Chelymorphia phyllophora* Clark). Kirk-  
 aldy, 1905, p. 417.

- Chaitophorus lyropictus* Kessler. Mordwilko, 1899, p. 414.  
*Chaitophorus testudinatus* (Thorn.). Oestlund, 1908, p. 131.  
*Chaitophorus versicolor* Koch. Theobald, 1911-12.  
*Drepanosiphum platanoides* Schrank. Wilson, 1909b, p. 349.  
*Euceraphis betulae* (Koch). (*Aphis cerasicolens* Fitch?). Baker, 1917f, p. 425.  
*Pemphigus aceris* Monell. Jackson, 1908, p. 214.  
*Periphyllus testudo* van der Hoeven. Zoological Record, 1870, p. 472.  
*Stomaphis graffii* Chol. Cholodkovsky, 1894 (1895), p. 405. "Auf ahornwurzeln."

### RULAC.

- R. negundo.** See *Acer negundo* L.

## SAPINDACEAE. SOAPBERRY FAMILY.

### AESCULUS. Horse-chestnut.

- A. glabra** Willd. Fetid or Ohio Buckeye.  
*Drepanaphis monelli* (Davis). Gillette, 1910, p. 371.  
*Phymatosiphum monelli* Davis. Davis, 1909c, p. 197.  
**A. parviflora** Walt.  
*Chaitophorus aceris* (Linn.) Koch. Buckton, 2, p. 126.

### MELIANTHUS.

- M. major** (L).  
*Rhopalosiphum persicae* (Sulzer). Essig, 1917a, p. 332.

## BALSAMINACEAE. TOUCH-ME-NOT FAMILY.

### IMPATIENS. Balsam.

- I. biflora** Walt. (fulva). Spotted Touch-me-not.  
*Aphis impatientis* Thomas. Thomas, 1879, p. 98.  
*Nectarophora fulvae* Oestlund. Oestlund, 1887, p. 80.  
*Siphonophora carnosa* var. *impatientis* Williams. Williams, 1910 (1911), p. 74.  
**I. noli-tangere** L.  
*Aphis balsamines* Kalt. Kaltenbach, 1874, p. 84.  
**I. pallida** Nutt. (aurea Muhl.) Pale Touch-me-not.  
*Aphis impatientis* Thomas. Williams, 1891, p. 25.  
*Siphonophora carnosa* var. *impatientis* Williams. Williams, 1910 (1911), p. 74.  
*Siphonophora fulvae* Oestlund. Williams, 1891, p. 25.

## RHAMNACEAE. BUCKTHORN FAMILY.

## CEANOTHUS. Red-root.

**C. cuneatus** Nutt.*Aphis ceanothi* Clarke. Davidson, 1909, p. 302.**C. hirsutus** Nutt.*Aphis ceanothi-hirsuti* Essig. Essig, 1911b.**C. integerrimus** Hook.*Aphis ceanothi* Clarke. Clarke, 1903, p. 251.**C. thrysiflorus** Esch.*Aphis ceanothi* Clarke. (*A. ceanothi-hirsuti* Essig). Essig, 1917a, p. 338.

## NOLTEA.

**N. africana** Reichb. Soapbush.*Aphis ceanothi* Clarke. (*A. ceanothi-hirsuti* Essig). Essig, 1917a, p. 338.

## PALIURUS.

**P. sp.***Aphis paliuri* Licht. (ined.) Lichtenstein, La Flore.

## RHAMNUS. Buckthorn.

**R. Alaternus** L.*Aphis frangulae* Koch. (*rhamni* Kalt.) Macchiati, 1883, p. 240.*Myzus rhamni* Koyer. Macchiati, 1883, p. 236.*Toxoptera alaterna* Del Guercio. Phillips and Davis, 1912, p. 8.*Toxoptera variegata* Del Guercio. Phillips and Davis, 1912, p. 8.**R. alpina** L.*Aphis frangulae* Kalt. (*rhamni* Kalt.). Kaltenbach, 1874, p. 101.**R. californica** Esch. Coffee Berry.*Nectarophora rhamni* Clarke. Clarke, 1903, p. 254.**R. Frangula** L.*Aphis frangulae* Kalt. (*rhamni* Kalt.). Kaltenbach, 1874, p. 101.

Koch, pp. 120, 142.

*Aphis frangulae* Koch. (*rhamni* Kalt.). Macchiati, 1883, p. 240.**R. lanceolata** Pursh.*Aphis frangulae* Kalt. Williams, 1891, p. 7.**R. Purshiana**. Cascara sagrada.*Aphis gossypii* Glover. Essig, 1917a, p. 338.*Myzus rhamni* Boyer. (*Macrosiphum rhamni* Clarke). Wilson, 1912a, p. 156.**R. sp.***Aphis rhamni* Schrank. Lichtenstein, La Flore.*Myzus rhamni* Boyer. Lichtenstein, La Flore.

## ZIZYPHUS.

## Z. Jujuba Lam.

*Rhizobius jujubae* Buckton. Buckton, 1899b, p. 278. Kirkaldy, 1906, p. 16. "is a Coccid."

## VITACEAE. VINE FAMILY.

## AMPELOPSIS.

## A. quinquefolia. See Psedera.

## PARTHENOCISSA.

## P. quinquefolia. See Psedera.

## PSEDERA. Virginia Creeper. Woodbine.

## P. quinquefolia (L.) Greene. (Ampelopsis quinquefolia) (Parthenocissa quinquefolia).

*Aphis folsomii* Davis. (parthenocissa Williams). Davis, 1911, p. 17.

*Aphis setariae* Thomas. Gillette and Taylor, 1908, p. 42.

## VITIS. Grape.

## V. californica Benth.

*Phylloxera pemphigoides* Donnadieu. Rathay, 1889, p. 67.

## V. cordifolia Michx. Frost or Chicken Grape.

*Aphis ripariae* Oestlund. Williams, 1891, p. 12.

*Phylloxera vastatrix* Planchon. Williams, 1891, p. 12.

*Siphonophora viticla* Thomas. Williams, 1891, p. 12.

## V. vinifera L.

*Aphis vitis* Scopoli. Kaltenbach, 1874, p. 95.

*Hyalopterus pruni* (Fab.) Koch (Prunifex Amyot). Buckton, 2, p. 111.

*Hyalopterus pruni* (Fab.) Koch (Walker partim). Passerini, 1863, p. 27.

*Peritymbia* (*Phylloxera*) *vitifolii* (Fitch-Riley) (*vastatrix* Planchon). Borner, 1909b, p. 61.

*Phylloxera vastatrix* Planchon. Kaltenbach, 1874, p. 775.

*Rhizoctonus ampelinus* Mokrzecky. Mordwilko, 1909, p. 159. Mokrzecky, 1895-96 (1897), p. 438.

*Schizoneura ampelorrhiza* Del Guercio. Del Guercio, 1900, p. 104.

## V. vulpina L. (riparia Michx.). River-bank or Frost Grape.

*Aphis ripariae* Oestlund. Oestlund, 1887, p. 63.

*Phylloxera pemphigoides* Donnadieu. Rathay, 1889, p. 66.

## V. sp.

*Aphis ripariae* Oestlund? (?vitis Scopoli). Gillette, 1910, p. 404.

*Aphis vitis* Scopoli. Sanborn, 1904, p. 56.

*Macrosiphum illinoensis* (Shimer) (Aphis) (*viticola* Thomas). Davis, 1910, Jour. Ec. Ent., p. 486.

- Phylloxera vastatrix* Planch. (*Peritymbia vitisana* Westwood).  
Lichtenstein, La Flore.  
*Xerampelus vastator* Del Guercio. (*Rhizaphis vastatrix* Planchon).  
Del Guercio, 1909, p. 80.

## TILIACEAE. LINDEN FAMILY.

## TILIA. Linden.

**T. americana** L. Basswood.

- Eucallipterus tiliae* (Linn.). Gillette, 1910, p. 367.  
*Longistigma caryae* (Harris) Wilson (*Lachnus longistigma* Monell). (*L. platanicola* Riley). Wilson, 1909a, p. 385.  
*Macrosiphum tiliae* (Monell). Davis, 1914, Can. Ent. Vol. 46, p. 83.  
*Pterocallis tiliae* (Linn.). Pass. Buckton, 3, p. 36.

**T. grandifolia**.

- Drepanosiphum tiliae* Koch. Koch, p. 204.  
*Pterocallis tiliae* (Linn.) Pass. Buckton, 3, p. 36.

**T. Europea** L.

- Pterocallis tiliae* Auct. (*Aphis*) Kalt. Ferrari, 1872, p. 77.  
*Schizoneura reaumuri* Kalt. Kaltenbach, 1843, p. 176.

**T. platyphyllos** Scop.

- Drepanosiphum (Aphis) tiliae* Koch. Kaltenbach, 1874, pp. 79, 561.  
*Pterocallis tiliae* (Linn.) Pass. Buckton, 3, p. 36.

**T. rubra** D. C.

- Aphis adducta* Walker. Walker, 1849c, p. 34.  
*Pterocallis tiliae* (Linn.) Pass. Buckton, 3, p. 36.

**T. tomentosa** Moench. Silver Linden.

- Eucallipterus tiliae* (Linn.). Essig, 1917a, p. 323.

**T. sp.**

- Callipterus (Eucallipterus) tiliae* (Linn.). Davis, 1909a, p. 33.  
*Pachypappa reaumuri* Kaltenbach. Theobald, 1915a. "on lime."  
*Siphonophora tiliae* Monell. (*Drepanosiphum tiliae* Koch?). Thomas, 1879, p. 188.

## MALVACEAE. MALLOW FAMILY.

## ALTHAEA. Marsh Mallow.

**A. narbonnensis** Pourr.

- Aphis malvae* Koch. Passerini, 1863, p. 36.  
*Siphonophora malvae* (Mosley) Pass. (*A. pelargonii* Kalt.) (*A. pallida* Walker) (*S. pelargonii* Koch) (*S. diplantherae* Koch).  
Passerini, 1863, p. 14.

**A. officinalis** L. Marsh Mallow.

- Aphis malvae* Koch. Passerini, 1863, p. 36.  
*Aphis urticaria* Kalt. Kaltenbach, 1874, p. 70.  
*Siphonophora artemisiae* Boyer.

*Siphonophora kochii* Ferrari. (*S. artemisiae* Koch, p. 165). Del Guercio, 1900, p. 168.

**A. rosea** Cav. Hollyhock.

*Aphis malvae* Koch. Passerini, 1863, p. 36.

*Macrosiphum solanifolii* (Ashmead). Houser, 1917a, p. 69.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

*Siphonophora malvae* (Mosley) Pass. (*A. pelargonii* Kalt.) (*A. pallida* Walker) (*S. diplantherae* Koch). Passerini, 1863, p. 14.

**A. sp.**

*Aphis cucumeris* Forbes. Williams, 1891, p. 15.

### GOSSYPIUM.

**G. herbaceum** L. Cotton.

*Acyrtosiphon gossypii gossypii* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 173.

*Aphis gossypii* Glover. (*citrifolii* Ashmead, in part) (*citrulli* Ashmead) (*cucumeris* Forbes) (*forbesi* Weed?). Pergande, 1895, p. 314.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 35.

**G. sp.**

*Acyrtosiphon gossypii gossypii* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 173.

*Aphis malvae* Koch. Lichtenstein, La Flore.

*Aphis medicaginis* Koch. Lichtenstein, La Flore.

*Aphis plantaginis* Schrank. Lichtenstein, La Flore.

### HIBISCUS. Rose Mallow.

**H. rosasinensis** L.

*Aphis gossypii* Glover. Fullaway, 1909, p. 40.

**H. sp.**

*Aphis malvae* Walker. Williams, 1891, p. 14.

*Aphis medicaginis* Koch. Macchiati, 1883, p. 255.

*Rhopalosiphum dianthi* (Schrank). Williams, 1891, p. 14.

### LAVATERA.

**L. arborea** L.

*Aphis malvae* Koch. Ferrari, 1872, p. 64.

**L. assurgentiflora** Kellogg.

*Rhopalosiphum persicae* (Sulzer). Essig, 1917a, p. 331.

**L. trimestris** L.

*Aphis malvae* Koch. Passerini, Flora.

### MALOPE.

**M. trimestri.**

*Aphis malvae* Koch. Passerini, 1863, p. 36.

### MALVA. Mallow.

**M. moschata** L. Musk Mallow.

*Siphonophora urtica* Koch. (Aphis Schrank). Passerini, 1863, p. 14.

**M. parviflora** L.

*Aphis malvac* Koch. Del Guercio, 1909 (1910), Redia VII, p. 298.

*Myzus achyrantes* Monell. Davidson, 1909, p. 303.

*Myzus persicae* (Sulzer). Essig, 1911c, p. 600.

**M. rotundifolia** L. Common Mallow. Cheeses. (neglecta).

*Acyrtosiphon skrzabini* Mordwilko. Mordwilko, 1914, Faune de la Russie, p. 181.

*Aphis cardui* Linn. Kaltenbach, 1874, p. 381.

*Aphis gossypii* Glover. (citrifolii Ashm., in part) (citrulli Ashm.) (cucumeris Forbes) (forbesi Weed?). Pergande, 1895, p. 314.

*Aphis malvae* Koch. Theobald, 1911-12.

*Aphis urticae* Fab. Bayer, 1914a, p. 111.

*Aphis urticaria* Kalt. Kaltenbach, 1874, p. 69.

*Chaitophorus* sp. Gillette, 1909a, p. 388.

*Myzus achyrantes* (Monell). Williams, 1891, p. 17.

**M. sylvestris** L. High Mallow.

*Aphis addita* Walker. Walker, 1849c, p. 33.

*Aphis cardui* Linn. (A. onopordi Schrank). Kaltenbach, 1843, p. 115.

*Aphis malvae* Koch. Passerini, 1863, p. 36.

*Aphis urticae* Fab. Bayer, 1914a, p. 111.

*Siphonophora pclargonii* (Kalt.) Koch (pallida Walker) (fragariae Walker?) (diplantherae Koch?) (malvae Pass.). Buckton, 1, p. 137.

*Siphonophora urticae* (Kalt.) Koch. Buckton, 1, p. 144.

**M. sp.**

*Aphis cupatorii* Passerini. Del Guercio, 1909 (1910), Redia VII, p. 297.

*Aphis gossypii* Glover. (malvae Koch) (cucubiti Buckton). van der Goot, 1915, p. 198.

*Aphis malvae* Mosley. Lichtenstein, La Flore.

*Aphis malvae* Koch. Ferrari, 1872, p. 64.

*Aphis malvae* Walker. Buckton, 2, p. 43.

*Macrosiphum diplantherae* Koch. Theobald, 1913, p. 54.

*Macrosiphum malvae* (Mosley). Theobald, 1913, p. 150.

*Macrosiphum malvicola* Matsumura. Matsumura, 1917a, p. 359.

*Macrosiphum pclargonii* Buckton. Theobald, 1913, p. 54.

*Myzus persicae* Sulzer. (achyrantes Monell?) (malvae Oestlund?). Gillette and Taylor, 1908, p. 137.

*Siphocoryne alboapicalis* Theobald. Theobald, 1916f, p. 183.

**MALVASTRUM.** False Mallow.

**M. coccineum.** A. Gray. Red False Mallow.

*Myzus circumflexum* (Buckton) (vincae Gillette). Davis, 1914, p. 122. Can. Ent.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.



## STERCULIACEAE.

## THEROBROMA.

## T. Cacao L.

*Toxoptera theobromae* Schouteden. Schouteden, 1906b, p. 38 (2).

## TERNSTROEMIACEAE. TEA OR CAMELLIA FAMILY.

## CAMELLIA.

## C. drupifera (oleifera).

*Toxoptera aurantii* Boyer. (Aphis) (A. camelliae Kalt.). Ferrari, 1872, p. 62.

## C. japonica.

*Toxoptera aurantii* Boyer. (Aphis) (A. camelliae Kalt.). Ferrari, 1872, p. 62. Essig, 1917a, p. 330.

## C. Thea Link.

*Ceylonia theaeicola* Buckton. Experiment Station Record, 1903-4, (1904), p. 277.

## C. sp.

*Toxoptera aurantii* Boyer. (T. camelliae Kaltenbach) (*Ceylonia theaeicola* Buckton). Phillips and Davis, 1912, p. 8.

## HYPERICACEAE. SAINT JOHN'S-WORT FAMILY.

## HYPERICUM. Saint John's-wort.

## H. crispum L.

*Aphis chloris* Koch. Macchiati, 1883, p. 239.

## H. hirsutum L.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 269.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

## H. kalmianum L. Kalm's Saint John's-wort.

*Aphis hyperici* Monell. Monell, 1879, p. 25.

## H. perforatum L. Common Saint John's-wort.

*Aphis chloris* Koch. Ferrari, 1872, p. 65.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 269.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

## H. prolificum L. Shrubby Saint John's-wort.

*Myzocallis hyperici* Thomas. Thomas, 1879, p. 109.

## H. quadrangulum L.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 269.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

## H. Sarothra Michx. (gentianoides).

*Aphis maidi-radici* Forbes. Vickery, 1910, p. 103.

## TAMARICACEAE.

## TAMARIX.

## T. sp.

*Aphis rumicis* L. (evonymi Fab.) (papaveris Fab.) (atriplicis Fab.) (genistae Scopoli). van der Goot, 1915, p. 225.

*Aphis tamaricis* Licht. Lichtenstein, 1885a, p. CLXXIX.

## CISTACEAE. ROCKROSE FAMILY.

### CISTUS.

#### **C. crispus** L.

*Aphis cisti* Lichtenstein. Del Guercio, 1909 (1910), Redia VII, p. 297.

#### **C. hirsutus.**

*Aphis cisti* Lichtenstein. Del Guercio, 1909 (1910), Redia VII, p. 297.

#### **C. sp.**

*Aphis cisti* Licht. (ined.). Lichtenstein, La Flore.

*Myzus targonii* Del Guercio. (M. ribis? Linn., Ferrari). Del Guercio, 1900, p. 152.

### HELIANTHEMUM. Rockrose.

#### **H. vulgare** Gaertn. Fruct.

*Aphis helianthemis* Ferrari. Ferrari, 1872, p. 65.

## VIOLACEAE. VIOLET FAMILY.

### VIOLA. Violet.

#### **V. nuttallii.**

*Myzus circumflexum* (Buckton) (vincae Gillette). Davis, 1914, p. 122. Can. Ent.

#### **V. odorata** L. English or Sweet Violet.

*Siphonophora malvae* (Mosley) Pass. (A. pelargonii Kalt.) (A. pallida Walker) (S. pelargonii Koch) (S. diplantherae Koch). Passerini, 1863, p. 14.

#### **V. tricolor** L. Pansy. Heart's-ease.

*Aphis certa* Walker. Walker, 1849c, p. 32.

*Aphis insessa* Walker. Walker, 1849c, p. 32.

*Aphis violae* Scouteden. Schouteden, 1906a, p. 229.

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

*Siphonophora malvae* Mosley. (A. pelargonii Koch) (A. pallida Walker) (S. pelargonii Koch) (S. diplantherae). Macchiati, 1883, p. 230.

#### **V. sp.**

*Idiopterus nephrolepidis* Davis. Essig, 1911b, p. 541.

*Rhopalosiphum tulipaella* Theobald. Theobald, 1916f, p. 148.

*Rhopalosiphum violae* Pergande. Pergande, 1900b, p. 29. Sanborn, 1904, p. 65.

## LOASACEAE. LOASA FAMILY.

### MENTZELIA.

#### **M. nuda** Pursh.

*Nectarophora* sp. Cowen. Cowen, 1895, p. 125.

**M. sp.**

*Macrosiphum mentzeliae* Wilson. Wilson, 1915b, p. 99.

**BEGONIACEAE.****BEGONIA.****B. sp.**

*Aphis gossypii* Glover. (*citrifolii* Ashm., in part) (*citrulli* Ashm.) (*cucumeris* Forbes) (*forbesi* Weed?). Pergande, 1895, p. 314.

*Aphis opima* Buckton. Theobald, 1911-12.

*Macrosiphum begoniae* Schouteden. Schouteden, 1901, p. 117. 1906a, p. 238.

**CACTACEAE. CACTUS FAMILY.****CACTUS.****C. sp.**

*Aphis dianthi* Schrank. Walker, 1850a, p. 394.

**OPUNTIA. Prickly Pear.****O. vulgaris** Mill.

*Aphis papaveris* Fab. Macchiati, 1883, p. 256.

**O. sp.**

*Myzus persicae* Sulzer. Gillette and Taylor, 1908, p. 36.

**THYMELAEACEAE. MEZEREUM FAMILY.****DAPHNE. Mezereum.****D. sp.**

*Macrosiphum hibernaculorum* (Boyer). Theobald, 1916f.

*Siphonophora gnidii* Licht. (ined.). Lichtenstein, La Flore.

**PIMILEA.****P. sylvatica.**

*Aphis dianthi* Schrank. Walker, 1850a, p. 394.

**ELAEAGNACEAE. OLEASTER FAMILY.****ELAEAGNUS.****E. angustifolia** L.

*Rhopalosiphum hippophaes* (*Myzus elaeagni* Del Guercio, Davis, 1908) Gillette, 1915, Jour. Ec. Ent. Vol. 8, p. 376.

**E. argentea** Pursh. Silver-berry.

*Capitophorus (Myzus) braggii* Gillette. van der Goot, 1915, p. 120.

**E. sp.**

*Myzus braggii* Gillette. Gillette, 1915, Jour. Ec. Ent. Vol. 8, p. 376.

**HIPPOPHAE.****H. rhamnoides** L.

*Myzus braggii* Gillette. Gillette, 1915, Jour. Ec. Ent. Vol. 8, p. 376.

*Rhopalosiphum hippophaes* Koch. Gillette, 1915, Jour. Ec. Ent. Vol. 8, p. 376.

### SHEPHERDIA.

**S. argentea** Nutt.

*Capitophorus shepherdiae* G. and B. Gillette and Bragg, 1916, p. 445.

**S. arvensis.**

*Myzus braggii* Gillette. Gillette, 1915, Jour. Ec. Ent. Vol. 8, p. 376.

## LYTHRACEAE. LOOSESTRIFE FAMILY.

### AMMANNIA.

**A. sp.**

*Rhopalosiphum nymphacae* (Linn.). Williams, 1891, p. 5.

### CUPHEA. (Parsonsia).

**C. Bustamanta** Lex. (platycentra).

*Aphis malvae* Walker. Williams, 1891, p. 8.

**C. ignea** DC. (Parsonia platycentra).

*Aphis malvae* Walker. Hunter, 1901, p. 127.

**C. sp.**

*Aphis gossypii* Glover. Fullaway, 1909, p. 40.

*Siphonophora malvae* (Mosley) Pass. (*A. pelargonii* Kalt.) (*A. pallida* Walker) (*S. pelargonii* Koch) (*S. diplantherae* Koch). Passerini, 1863, p. 14.

### LAGERSTROEMIA.

**L. indica** L.

*Myzocallis kahawaluokalani* Kirkaldy. Fullaway, 1909, p. 43.

**L. sp.**

*Aphis lagerstroemiae* Licht. (ined.). Lichtenstein, La Flore.

### LYTHRUM. Loosestrife.

**L. Salicaria** L. Spiked Loosestrife.

*Aphis lythri* Schrank. Kaltenbach, 1874, p. 254. Theobald, 1911-12.

*Aphis salicariae* Koch. Kaltenbach, 1874, p. 254.

*Myzaphis lythri* Schrank. van der Goot, 1915, p. 185.

### PUMICA.

**P. Granatum** L.

*Aphis punicae* Pass. Ferrari, 1872, p. 69.

## MYRTACEAE.

### MYRTUS.

**M. sp.**

*Aphis dianthi* Schrank. Walker, 1850a, p. 394.

*Rhopalosiphum persicae* Sulzer. Lichtenstein, Flore Supplement.

## ONAGRACEAE. EVENING PRIMROSE FAMILY.

## CLARKIA.

**C. elegans** Dougl.

*Rhopalosiphum persicae* (Sulzer). Essig, 1917a, p. 331.

## EPILOBIUM. Willow-herb.

**E. adenocaulon occidentale** Trelease.

*Aphis oenotherae* Oestlund. Essig, 1917a, p. 341.

**E. angustifolium** L. (spicatum Lam.) Great Willow-herb. Fireweed.

*Aphis epilobii* Kalt. Cockerell, 1903b, p. 114.

*Nectarophora* sp. Cowen. Cowen, 1895, p. 124.

**E. Dodonaei.**

*Aphis plantaginis* Schrank. (*A. dauci* Fab.). Passerini, 1863, p. 40.

**E. hirsutum** L.

*Aphis epilobii* Koch. Theobald, 1911-12.

**E. montanum** L. (pubescens).

*Aphis epilobii* Kalt. Buckton, 2, p. 71.

*Aphis instabilis* Buckton. Buckton, 2, p. 95.

*Aphis penicillata* Buckton, 2, p. 52.

*Macrosiphum ulmariae* (Schrank) (gei Koch) (*urticae* Kalt?)  
van der Goot, 1915, p. 104.

*Siphonophora ulmariae* (Schrank, Walker) (*onobrychis* Boyer)  
(*pisi* Kalt.) (*pisi* Koch) (*gei* Koch). Passerini, 1863, p. 13.

**E. parviflorum** Schreb.

*Aphis epilobii* Koch. Theobald, 1911-12.

*Aphis instabilis* Buckton. Buckton, 2, p. 95.

**E. virgatum** Cunn.

*Aphis virgata* Del Guercio. Del Guercio, 1909 (1910), Redia VII,  
p. 297.

**E. sp.**

*Anuraphis myosotidis* Koch. Del Guercio, 1909 (1910), Redia VII,  
p. 297.

*Aphis despecta* Walker. Walker, 1849c, p. 53.

*Aphis diphaga* Walker. Walker, 1852, p. 1042.

*Aphis epilobiina* Walker. Walker, 1849c, p. 53.

*Aphis malvae* Walker. Buckton, 2, p. 43.

*Aphis oenotherae* Oestlund. Clarke, 1903, p. 252.

*Aphis pollinosa* Walker. Walker, 1849c, p. 52.

*Aphis praeterita* Walker. Walker, 1849c, p. 52.

*Aphis tinctoria* Walker. Walker, 1849c, p. 51.

*Aphis triphaga* Walker. Walker, 1852, p. 1041.

*Nectarophora epilobii* Pergande. Pergande, 1900a, p. 516.

## FUCHSIA.

**F. coccinea** Ait.

*Aphis dianthi* Schrank. Kaltenbach, 1874, p. 48.

**F. globosa** Lindl.*Aphis dianthi* Schrank. Kaltenbach, 1874, p. 48.**F. gracilis.***Rhopalosiphum dianthi* (Schrank) Koch (persicae, Puceron du pecher Morren) (rapae Curtis) (floris-rapae Curtis) (dubia? Curtis) (vastator Smee) (A. persicaecola Boisduval) (Rh. persicae Pass.). Buckton, 2, p. 17.**F. macrantha** Hook.*Aphis dianthi* Schrank. Kaltenbach, 1874, p. 48.**GUARA.****G. parviflora** Doughl.*Nectarophora* sp. Cowen. Cowen, 1895, p. 124.*Siphonophora gaurae* Williams. Williams, 1910 (1911), p. 80.*Siphonophora gaurina* Williams. Williams, 1910 (1911), p. 80.**OENOTHERA.** Evening Primrose.**O. bectiana.***Aphis oenotherae* Oestlund. Clarke, 1903, p. 252.**O. biennis** L.*Aphis gossypii* Glover. Sanborn, 1904, p. 57.*Aphis oenotherae* Oestlund. Cowen, 1895, p. 121.*Myzus biennis* Sanborn. Sanborn, 1904, p. 78.*Myzus oenotherae* Williams. Williams, 1910 (1911), p. 65.*Pemphigus oenotherae* Williams. Williams, 1891, p. 11.*Siphonophora* sp. Williams, 1891, p. 11.**O. caespitosa** Nutt.*Aphis oenotherae* Oestlund. Cowen, 1895, p. 121.**O. grandiflora** Ait.*Aphis oenotherae* Oestlund. Essig, 1917a, p. 341.**O. serrulata** Nutt.*Aphis oenotherae* Oestlund. Williams, 1891, p. 11.**O. sp.***Anoecia oenotherae* Wilson. Wilson, 1911, p. 64.*Anoecia querci* (Fitch) (*Eriosoma querci* Fitch) (*Rhizobius eleusinis* Thos.) (*Schizoneura panicola* Thos.) (*Anoecia corni* American authors) (?*Anoecia oenotherae* Wilson). Baker, 1916, p. 363.**TRAPA.** Water Nut.**T. natans** L. Water Chestnut.*Rhopalosiphum nymphacae* Koch. Passerini, Flora.**HALORAGIDACEAE.** WATER MILFOIL FAMILY.**MYRIOPHYLLUM.** Water Milfoil.**M. verticillatum** L.*Rhopalosiphum nymphacae* Linn. (*Aphis aquaticus* Jackson). Davis, 1910a, p. 245.

# ARALIACEAE. GINSENG FAMILY.

## ACANTHOPANAX.

### A. ricinifolium.

*Aphis acanthopanaci* Matsumura. Matsumura, 1917a, p. 356.

## ARALIA.

### A. cordata.

*Arimakia araliae* Matsumura. Matsumura, 1917a, p. 363.

### A. hispida Vent. Bristly Sarsaparilla. Wild Elder.

*Aphis (Adactynus) aralia-hispida* Raf. Rafinesque, 1817.

### A. sinensis.

*Arimakia araliae* Matsumura. Matsumura, 1917a, p. 363.

*Arimakia taranbonis* Matsumura. Matsumura, 1917a, p. 363.

## HEDERA.

### H. Helix L. English Ivy.

*Aphis hederæ* Kalt? Essig, 1917a, p. 339.

*Aphis hederæ* Kalt. Buckton, 2, p. 75.

?*Aphis lychnidis* Linn. Buckton, 2, p. 74.

*Aphis rumicis* Linn. (fabæ Kirby) (genistæ Scop.) (ulicis Fab?) (euphorbiæ Kalt?) (dahliæ Mosley) (Cinara rumicis Mosley) (Rumicifex Amyot) (Genistifex Amyot). Buckton, 2, p. 84.

*Myzus persicæ* (Sulzer). Essig, 1911c, p. 600.

*Pemphigus hederæ* Horvath.

# UMBELLIFERAE. PARSLEY FAMILY.

## AEGOPODIUM. Goutweed.

### A. Podagraria L.

*Aphis capreæ* Fab. (A. aegopodii Scopoli). Kaltenbach, 1843, p. 110.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 269.

*Siphocoryne capreæ* (Fab.) Theobald, 1912. Rept. Ec. Zool. p. 88.

### A. sp.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

## AETHUSA. Fool's Parsley.

### A. Cynapium L.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 269.

### A. sp.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

## ANGELICA.

### A. sylvestris L.

*Aphis angelicæ* Koch. Koch, p. 52.



*Aphis caprae* Fab. (*A. aegopodii* Scopoli). Kaltenbach, 1843, p. 110.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Cavariella giglioli* Del Guercio. Del Guercio, 1909 (1910), Redia VII, p. 298.

*Siphocoryne angelicae* Del Guercio. Del Guercio, 1909 (1910), Redia VII, p. 298.

**A. tomentosa** Wats.

*Aphis cari* Essig. Essig, 1917a, p. 320.

**A. sp.**

*Aphis angelicae* Koch. Wilson, 1909b, p. 348.

**ANTHRISCUS.** Chervil.

**A. sylvestris** Hoffm. (*Chaerophyllum sylvestre*).

*Aphis pisi* Kalt. Kaltenbach, 1874, p. 118.

*Macrosiphum ulmariae* Schrank (gei Koch) (*urticae* Kalt?). van der Goot, 1915, p. 104.

**A. vulgaris** Bernh.

*Aphis anthrisci* Kalt. Kaltenbach, 1843, p. 112.

**A. sp.**

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 288.

*Aphis rumicis* (*evonymi* Fab.) (*papaveris* Fab.) (*atriplicis* Fab.) (*genistae* Scopoli). van der Goot, 1915, p. 225.

*Siphonophora ulmariae* Schrank. Lichtenstein, Flore Supplement.

**APIUM.**

**A. graveolens** L. Garden Celery.

*Aphis inculta* Walker. Walker, 1849c, p. 43.

*Aphis lappae* Koch. Passerini, 1863, p. 51. Theobald, 1911-12.

*Myzus lycopersici* Clarke. Davis, 1914, p. 134. Can. Ent.

*Rhopalosiphum dianthi* Schrank. G. C. Davis, 1893, p. 40.

*Siphocoryne avenae* (Fab.) (*mali* Fitch) (*prunifoliae* Fitch) (*avenae* Fitch) (*annuae* Oestlund) (*fitchii* Sanderson) (*Siphonophora avenae* Thos. in part). Pergande, 1904a, p. 8.

*Siphocoryne pastinacae* Linn. Buckton, 2, p. 24.

*Siphocoryne pastinacae* Linn. Cockerell, 1903b, p. 114.

**ARCHANGELICA.**

**A. atropurpurea** Hoffm.

*Siphocoryne archangelicae* Oestlund. Oestlund, 1887, p. 70.

**A. sp.**

*Aphis archangelicae* Scop. Lichtenstein, Flore Supplement.

**CARUM.** Caraway.

**C. kelloggii** Gray. Wild or Sweet Anise.

*Aphis cari* Essig. Essig, 1917a, p. 320.

*Siphocoryne caprae* (Fab.). Essig, 1917a, p. 342.

**C. sp.**

*Siphocoryne capreae* Fab. (aegopodii Scopoli) (umbellatorum Koch) (cicutae Koch). van der Goot, 1915, p. 163.

**CAUCALIS.** (Turgenia).**C. latifolia** L. (Turgenia latifolia L.).

*Aphis papaveris* Fab. (A. fabae Scop.) (A. aparines Schrank). Passerini, 1863, p. 46.

**CHAEROPHYLLUM.****C. temulum** L.

*Aphis capreae* Fab. (aegopodii Scopoli). Kaltenbach, 1843, p. 110.

*Aphis chaerophylli* Koch. Koch, p. 80.

*Aphis pisi* Kalt. Kaltenbach, 1874, p. 118.

**C. tuberosum.**

*Aphis chaerophylli* Koch. Theobald, 1915b.

**C. sp.**

*Siphocoryne capreae* Fab. Lichtenstein, La Flore.

*Siphonophora ulmariae* (Schrank, Walker) (onobrychis Boyer) (pisi Kalt.) (pisi Koch) (gei Koch). Passerini, 1863, p. 13.

**CICUTA.** Water Hemlock.**C. maculata** L. Spotted Cowbane. Musquash Root. Beaver Poison.

*Nectarophora* sp. Osborn-Sirrinc. Hunter, 1901, p. 123.

**C. virosa** L.

*Rhopalosiphum cicutae* Koch. Koch, p. 24.

*Rhopalosiphum nymphaeae* (Linn.) Koch (A. butomi Schrank) (R. najadum Koch). Passerini, 1863, p. 21.

**CONIUM.** Poison Hemlock.**C. maculatum** L.

*Aphis capreae* Fab. (cicutae Koch). Kaltenbach, 1874, pp. 291, 266.

*Aphis capreae* Fab. (A. aegopodii Scopoli). Kaltenbach, 1843, p. 110.

*Aphis xylostei* Schrank (loniceriae Boyer). Kaltenbach, 1874, p. 307.

*Hyadaphis xylostei* Schrank. (Siphocoryne conii Davidson). Davidson, 1914, Jour. Ec. Ent., Vol. 7, p. 134.

**C. sp.**

*Siphocoryne foeniculi* Pass. Lichtenstein, La Flore.

**CRITHMUM.****C. maritimum** L.

*Aphis crithmi* Buckton. Buckton, 1886, p. 324.

**CRYPTOTAENIA.** Honewort.**C. Canadensis** DC. (Chaerophyllum canadense).

*Aphis chcnophyllum-canadense* Raf. Rafinesque, 1817.

**DAUCUS.** (Orlaya). Carrot.

**D. Carota** L.

*Aphis assucta* Walker. Walker, 1849c, p. 49.

*Aphis carotae* Koch. Graells, 1887, p. 11.

*Aphis dauci* Fab. Graells, 1887, p. 11.

*Aphis lappae* Koch. Graells, 1887, p. 11.

*Aphis papaveris* Fab. Graells, 1887, p. 11.

*Aphis papaveris* Fab. (*A. fabae* Scop.) (*A. aparines* Schrank).

Passerini, 1863, p. 46.

*Aphis plantaginis* Fab. Kaltenbach, 1874, p. 56.

*Aphis plantaginis* Schrank. (*dauci* Fab.). Ferrari, 1872, p. 66.

Theobald, 1916f, p. 183.

*Aphis plantaginis* Schrank. Graells, 1887, p. 11.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Aphis subterranea* Walker. (*A. carotae* Koch). Buckton, 2, p. 38.

*Aphis umbellatarum* Kalt. Graells, 1887, p. 11.

*Forda dauci* Gureau. Graells, 1887, p. 11.

*Siphocoryne caprae* (Fab.) (not *pastinaceae* Koch). Theobald, 1912, Rept. Ec. Zool., p. 88.

*Siphocoryne foeniculi* Pass. Graells, 1887, p. 11.

*Siphocoryne pastinaceae* Linn. Buckton, 2, p. 24.

**D. foliosus** Guss.

*Aphis carotae* Koch. Macchiati, 1883, p. 239.

**D. sp.**

*Aphis umbellatorum* Koch. Lichtenstein, La Flore.

*Siphocoryne caprae* Fab. (*aegopodii* Scop.) (*umbellatorum* Koch) (*cicutae* Koch). van der Goot, 1915, p. 163.

**ERYNGIUM.** Eryngo.

**E. campestre** L.

*Aphis dispar* Walker. Walker, 1848c, p. 2251.

*Aphis diversa* Walker. Walker, 1848c, p. 2251.

*Aphis papaveris* Fab. Macchiati, 1883, p. 256.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

**FALCARIA.**

**F. vulgaris** Bernh. (*Sium falcatum*).

*Aphis sii* Koch. Kaltenbach, 1874, p. 271.

**FERULA.**

**F. sp.**

*Myzus ferulaginis* Macchiati. Lichtenstein, Flore Supplement.

*Vacuna ferulae* Macchiati. Lichtenstein, Flore Supplement.

**FOENICULUM.** Fennel.

**F. vulgare** Mill. (*officinale* ALL.).

*Aphis saliceti* Kaltenbach. Patch, 1917a, p. 417.

*Siphocoryne foeniculi* Pass. Clarke, 1903, p. 252.

**F. sp.**

*Aphis capreae* Fab. (*foeniculi* Pass.) (*cicutae* Koch). Kaltenbach, 1874, p. 275.

**HERACLEUM.** Cow Parsnip.

**H. lanatum** Michx.

*Aphis heracii* Cowen. Cowen, 1895, p. 120.

*Aphis saliceti* Kaltenbach. Patch, 1917a, p. 417.

**H. mantegazzianum** S&L.

*Aphis heraclei* Cowen. (not Koch). Essig, 1917a, p. 339.

**H. Sphondylium** L.

*Aphis heraclei* Koch. Koch, p. 51.

*Aphis umbellatorum* Koch. Theobald, 1911-12.

*Hyalopterus spondylii* Koch. Koch, p. 18.

*Phorodon galeopsidis* (Kalt.) Pass. (Walker ex parte). Passerini, 1863, p. 19.

*Siphocoryne capreae* (Fab.). Theobald, 1912, Rept. Ec. Zool., p. 88.

**H. sp.**

*Siphocoryne capreae* Fab. (*aegopodii* Scopoli) (*umbellatorum* Koch) (*cicutae* Koch). van der Goot, 1915, p. 163.

**HYDROCOTYLE.** Water Pennywort.

**H. sp.**

*Aphis nymphaeae* L. Kaltenbach, 1874, p. 20.

**LEVISTICUM.** Lovage.

**L. sp.**

*Aphis ligustici* Fab. Kaltenbach, 1874, p. 278.

**LIGUSTICUM.** Lovage.

**L. scoticum** L. Scotch Lovage.

*Aphis ligustici* Fab. Kaltenbach, 1843, p. 140.

**L. sp.**

*Nectarophora martini* Cockerell. Cockerell, 1903a, p. 171.

**MUSENIUM.**

**M. tenuifolium** Nutt.

*Aphis penstemonis* Williams. Williams, 1910 (1911), p. 54. "Evidently this species."

**OENANTHE.** Phellandrium.

**O. crocata** L.

*Aphis umbellatorum* Koch. Theobald, 1911-12.

**O. sp.**

*Aphis oenanthis* Licht. (ined.). Lichtenstein, La Flore.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 275.

**PASTINACA.** Parsnip.**P. sativa** L.

*Aphis capreae* Fab. (*A. aegopodii* Scopoli). Kaltenbach, 1843, p. 110.

*Aphis carotae* Koch. Ferrari, 1872, p. 72.

*Aphis cicutae* Koch. (*capreae* Fab.). Kaltenbach, 1874, p. 266.

*Aphis heraclii* Cowen. Cowen, 1895, p. 120.

*Aphis robusta* Walker. Walker, 1849c, p. 43.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

*Aphis saliceti* Kaltenbach. Patch, 1917a, p. 417.

*Rhopalosiphum pastinaceae* (L.) Koch. (*A. capreae* Fab.) (*R. cicutae* Koch). Koch, pp. 41-42.

*Siphocoryne capreae* (Fab.) (not *pastinaceae* Koch). Theobald, 1912, Rept. Ec. Zool., p. 88.

*Siphocoryne foeniculi* Pass. Passerini, 1860, p. 37.

**P. sp.**

*Siphocoryne capreae* Fab. (*aegopodii* Scopoli) (*umbellatorum* Koch) (*cicutae* Koch). van der Goot, 1915, p. 163.

**PETROSELINUM.** Parsley.**P. hortense** Hoffm. Common Parsley.

*Rhopalosiphum capreae* (Fab.) Gillette, 1911, p. 323.

**PEUCEDANUM.** (Anethum).**P. alsaticum** L. (Anethum.).

*Aphis papaveris* Fab. (*A. fabae* Scop.) (*A. aparines* Schrank). Passerini, 1863, p. 46.

**P. palustre** Moench.

*Aphis rumicis* Linn. (*fabae* Kirby) (*genistae* Scop.) (*ulicis* Fab?)  
*Euphorbiae* Kalt?) (*dahliae* Mosley) (*Cinara rumicis* Mosley)  
 (*Rumicifex* Amyot) (*Genistifex* Amyot). Buckton, 2, p. 84.

**P. sp.**

*Siphonophora capreae* Fab. Lichtenstein, Flore Supplement.

**PIMPINELLA.****P. magna** L.

*Aphis anthrisci* Kalt. Kaltenbach, 1874, p. 273.

*Aphis pimpinellae* Kalt. Kaltenbach, 1874, p. 273.

**P. Saxifraga** L.

*Aphis anthrisci* Kalt. Kaltenbach, 1874, p. 273.

*Aphis pimpinellae* Kalt. Kaltenbach, 1874, p. 273.

**SANICULA.** Sanicle.**S. canadensis** L.

*Aphis saniculae* Williams. Williams, 1910 (1911), p. 56.

**SCANDIX.** Venus' Comb.**S. Pecten-Veneris** L.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 269.

**SESELI.****S. sp.**

*Aphis seselii* Licht. (ined.). Lichtenstein, La Flore.

**SIUM.**

**S. falcatum.** See *Falcaria vulgaris*.

**S. latifolium** L.

*Aphis rumicis* Linn. Walker, 1850a, p. 19.

**THASPIUM.** Meadow Parsnip.**T. aurem** Nutt.

*Aphis thaspiae* Oestlund. Oestlund, 1887, p. 58.

**TORDYLIUM.****T. apulum** L.

*Aphis carotae* Koch. Macchiati, 1883, p. 239.

**TORILIS.****T. Anthriscus** (L). Bernh. (Caucalis *Anthriscus*).

*Aphis anthrisci* Kalt. Kaltenbach, 1874, p. 273.

*Aphis papaveris* Fab. Kaltenbach, 1874, p. 269.

**UMBELLIFERAE.****U. sp.**

*Acyrtosiphon navozovi* Mordwilko, 1914, Faune de la Russie, p. 196.

*Siphocoryne pastinaceae* Koch (not *capreae* Fab.). Theobald, 1912, Rept. Ec. Zool., p. 89.

**EXPLANATION OF FIGURES**

Figure 4. Showing antennae, thoracic wax-plates and hind tarsi, all drawn to same scale.

*Prociphilus corrugatus*? Spring migrant from *Crataegus* (67-12, 50-04): *P. alnifoliae*? Spring migrant from *Amelanchier* (27-06, 40-06, 29-10, 16-11): *P. (Trama) erigeronensis*. Fall migrant from *Solidago* (78-06); Apterous female from cultivated aster. *P. sp.* Fall migrants found alighting at base of trunk of Mountain Ash, *Pyrus sp.* (164-12).

Figure 5. Showing antennae, thoracic wax-plates and hind tarsi, all drawn to same scale.

*Prociphilus tessellata*. Spring migrant from *Acer* (24-11); fall migrant from *Alnus* (120-16): *P. xylostei*, spring migrant from *Lonicera* (53-14, 96-16): *P. approximatus*, spring migrant from *Fraxinus* (1-16-21): *P. fraxinifolii*, spring migrant from *Fraxinus* (62-09): *P. venafuscus*, spring migrant from *Fraxinus* (55-06, 85-11); fall migrant (100-08).

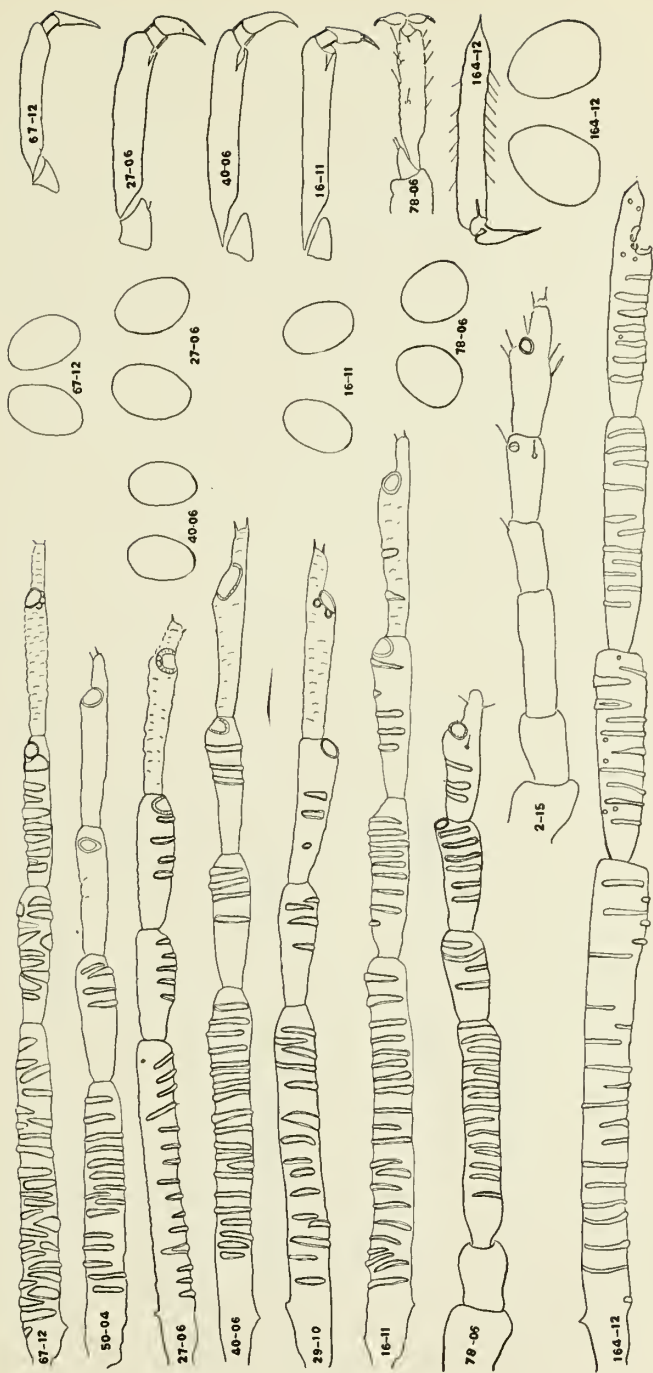


FIGURE 4.





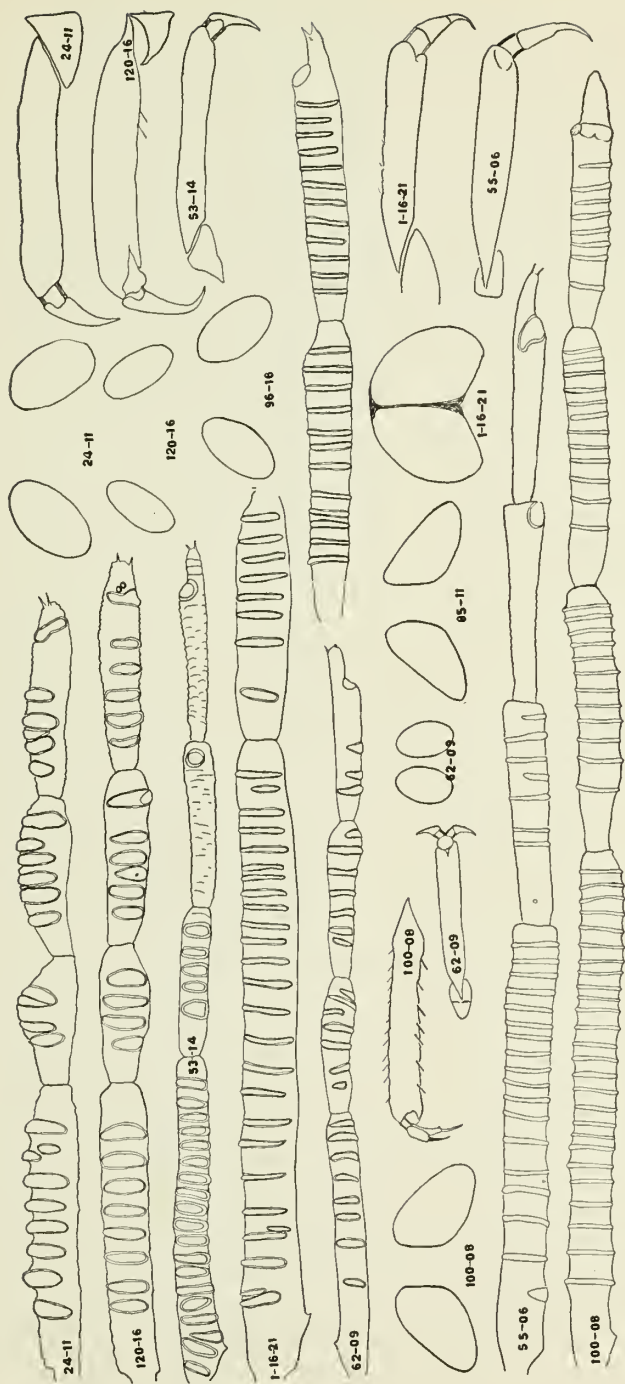


FIGURE 5.

